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The



CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

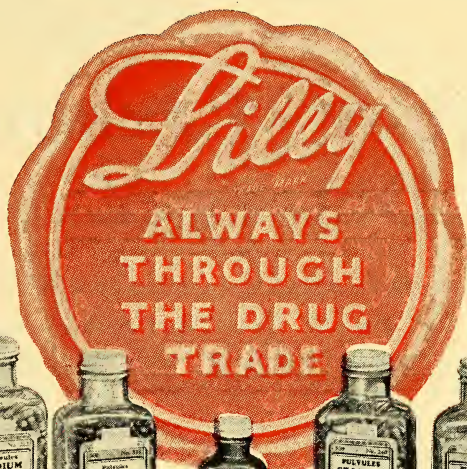
Founded 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

3 2 4 6
LXXXVII

APRIL 25, 1942

Annual Subscription (with
Diary) 25/-, Single Copies 9d.

BARBITURIC ACID DERIVATIVES

PROGRESS in the therapeutic field has always been the aim of the Lilly Research Laboratories, and in the case of Barbituric Acid derivatives some notable products have resulted. Judged by criteria of potency, uniformity, stability and purity these products rank high and command the confidence of the medical profession. In keeping with the Lilly Policy, distribution is reserved to the Drug Trade.

ELI LILLY AND COMPANY LIMITED
BASINGSTOKE, HANTS.

WRIGHT'S

*are glad to announce that reasonable
stocks of*

Liquor Carbonis Registered **Detergens** Mark

*are once more available for Pharmacists, and
offer their apologies for the recent temporary
and unavoidable shortage of home supplies.*

As a result of heavy demands from many overseas service depots, export orders have had to take precedence during past months. Increased production facilities have now rectified this position and orders for the home market can be executed without

undue delay. The medical profession is being advised of the improvements in stocks.

Liquor Carbonis Detergens, a stabilised alcoholic solution of Coal Tar, has been recognised for many years by skin specialists as a product of great antiseptic value.

Sole Manufacturers and Proprietors :

WRIGHT LAYMAN & UMNEY LIMITED
44-50 SOUTHWARK STREET, LONDON, S.E.1



Twenty years ago, Mellanby's study of the effects of various fats on the tooth-formation of puppies paved the way for the differentiation of vitamins A and D.

Puppies' teeth

Ten years later there came from London and Göttingen simultaneous announcements of identical achievements. The first pure vitamin had been produced in the laboratory. It

was a crystalline substance ($C_{28}H_{43}OH$) containing 40,000,000 international units of vitamin D in each gram, and it was named calciferol.

Glaxo Laboratories are probably the largest manufacturers of calciferol in this country. The whole production-process is carried out at Greenford. Today the forms of 'Ostelin' calciferol range from 'Ostelin' liquid and emulsion—for use in infant feeding to prevent and cure rickets—to the new High Potency 'Ostelin' Capsules prepared to meet the needs of specialists working on arthritis, parathyroid and tetany.

Your customer, the doctor, has many reasons for gratitude to large-scale production of standardized British vitamin preparations. And 'Ostelin' was the first of them.

OSTELIN VITAMIN D (CALCIFEROL) Brand

'Ostelin' liquid is now made with Arachis Oil (instead of being a glycerin suspension) and is no longer miscible with water

GLAXO LABORATORIES LTD

PRODUCT OF THE
GLAXO LABORATORIES

GREENFORD, MIDDX. BY Ron 3434



**IMPORTANT ANNOUNCEMENT
REGARDING FUTURE SUPPLIES OF**

TRADE **Vaseline** MARK
BRAND

**PETROLEUM JELLY
AND
PREPARATIONS**

The Chesebrough Manufacturing Company Ltd. very much regret that the very large number of orders on hand compel them to advise the Trade that they will be unable to accept further orders direct from Retailers until July. This drastic action is due to labour shortage, and to conditions beyond their control.

All orders on hand will be despatched, when possible, in strict rotation. We ask for your indulgence during this period of unprecedented difficulties.

Orders from Wholesale Sundriesmen will continue to receive our best attention. Will Retailers therefore please obtain only limited supplies through their usual Wholesaler.

**Chesebrough Manufacturing
Co., Ltd.**

Victoria Road, Willesden Junction, N.W.10

Crookes'

Halibut Oil

Shortage of Capsules

DURING to a Government restriction on Glycerine and Gelatine, and the enormous demand in the early winter months, our supplies of *capsules* have been very severely reduced. Most of the stock available, therefore, has been divided up into the four standard bonus parcels A, B, C, D, and the all-capsule parcels, E and F, have been discontinued. By this means a large majority of Chemists will continue to benefit by bonus in kind and the scheme will operate as long as supplies last.

It is possible that from time to time we may be able to supply small quantities of *capsules only* but orders for these will not receive bonus in kind and no delivery date can be guaranteed.

There is no shortage of the oil itself, the supply of which is under Government control, and we advise Chemists to draw their customers' attention to this fact. Sooner or later the public will have to accustom itself to taking its vitamin treatment in this form, and the refinement in the form of capsules must be dispensed with in order to release the Glycerine and Gelatine for more essential purposes.

Advertisements in the public press will announce the shortage and will support the chemist who may have stocks of oil but not of capsules.

EXTRA 2½% BONUS

Crookes' War Savings Certificate
Extra Bonus Scheme

An extra bonus of 2½%—payable in National Savings Certificates—is now available to chemists who are supporters of the Chemists' Friends Movement who hold or will buy at least one Certificate. Write to us for details.



CROOKES' HALIBUT OIL Standard Bonus Parcels (Drops and Capsules)			
PARCEL A = 3 DOZEN	Bonus	Sell	£ s. d.
24 x 5 c.c. Drops	2	2/-	2 8 0
12 x 25 Capsules	1	2/6	1 10 0
Less 25%			3 18 0
" 10%			19 6
*Amount of cash with order			2 18 6
			5 10
			*£2 12 8
PARCEL B = 3 DOZEN			
18 x 5 c.c. Drops	2	2/-	1 16 0
18 x 25 Capsules	1	2/6	2 5 0
Less 25%			4 1 0
" 10%			1 0 3
*Amount of cash with order			3 0 9
			6 1
			*£2 14 8
PARCEL C = 6 DOZEN			
36 x 5 c.c. Drops	6	2/-	3 12 0
36 x 25 Capsules	6	2/6	4 10 0
Less 25%			8 2 0
" 10%			2 0 6
*Amount of cash with order			6 1 6
			12 2
			*£5 9 4
PARCEL D = 6 DOZEN			
30 x 5 c.c. Drops	5	2/-	3 0 0
6 x 15 c.c. "	1	5/-	1 10 0
30 x 25 Capsules	5	2/6	3 15 0
6 x 100 "	1	8/6	2 11 0
Less 25%			10 16 0
" 10%			2 14 0
*Amount of cash with order			8 2 0
			16 2
			*£7 5 10

THE CROOKES LABORATORIES (British Colloids Ltd.) LONDON, N.W.10

Telephone: Willesden 6313 (5 lines)

Telegrams: Colloids, Harles, London

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for
COLDS
CATARRH
INFLUENZA





K

THOMAS KERFOOT & CO. LTD
Vale of Bardsley ··· Lancashire

K

MOORE MEDICINAL PRODUCTS LIMITED



**MANUFACTURING CHEMISTS
ABERDEEN and LEEDS**



Aberdeen
April, 1942

Dear Maister Druggist,

This time we write you in our own dialect. It wis maist awfu' gweed o' ye te tak' sic a byordinar teetie at wir last effusion. Noo, though anither boorach o' epistles has come in fae ye, we're jist like yon laddie, Oliver Twist, aye siccin' mair.

A fairmer crony o' ours, Dod MacSporran, canna mak' out fit wye sooth bodies divna mak' mair eese o' BROVON. He wis attackit the streen, just took a curn whiffs an' awa' gid his Asthma. quicker than sna' afore a fresh.

Forbyes that, there wis his kitchie deem, Leebie. She wis sair bothered wi' the Constipation ilka time she teemed her caup o' brose. Noo she jist slips a NEDA FRUIT CUBE intil 'er moo, an' even anither caupfu' widna strive wi' 'er.

Fat mair wid ye hae? Keep a puckle o' this remedies on yer coonter, a spare lottie ben the hoose, an' ye'll be public benefactors wi' nae bother at a, in fac', ye'll save a' menner o' fowk a hantle o' tribble.

Wi' Compliments,

Yours truly,

MOORE MEDICINAL PRODUCTS LTD.

P.S.—A translation (if required) together with our descriptive Price List will be sent you on request.

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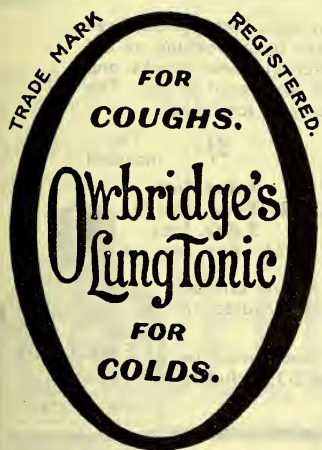
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BRAND
CARBOLIC
OINTMENT
YOUR FIRST AID

KEEP IT ON DISPLAY!
National advertising ensures public demand
Recommend Calvex for Chilblains, Chapped Hands, Piles and Ulcers

ONE SIZE ONLY DURING WAR PERIOD



Retail price - 1/2 per bottle
including purchase tax

Gross lots - 8/6 per dozen
excluding purchase tax

Under 1 gross 9/- per dozen
excluding purchase tax

It is hoped that good supplies will be available during the winter season, but should a shortage occur, every effort will be made to maintain a fair and even distribution.

W. T. Owbridge, Ltd., The Laboratory, Hull

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A NOTE TO OVERSEAS BUYERS

The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper should not be taken as an indication that they are necessarily available for export.

PENETROL. INCREASED PRICES

Although ingredients have more than doubled in cost, retail prices have not been increased since the war because we have been working on old stocks. It has now become necessary to replenish these stocks and naturally it is impossible to maintain the present low retail prices. The trade is therefore advised of the new prices operating forthwith:—

RETAIL	9d.	2/-	3/-	Tax Included
TRADE				
1 doz. lots		1 doz. lots	1 doz. lots	
6/- doz. plus tax		16/6 doz. plus tax	25/3 doz. plus tax	
3 doz. lots		3 doz. lots	3 doz. lots	
5/9 doz. plus tax		15/9 doz. plus tax	24/- doz. plus tax	

Not more than three dozen of a size can be supplied at any one time and subject, of course, to raw materials being available.

Retailers should note that existing stocks must be sold at the old prices of 7d., 1/5, and 2/3, including tax.



W. B. CARTWRIGHT LTD. RAWDON. LEEDS.



"I know it is difficult"

**RENDELLS
SILATEX
SANTRON
MENSINOLE**

Your customers continually ask for **SILATEX** and **SANTRON** and yet you cannot obtain sufficient supplies to meet the demand. We are doing our best to arrange distribution to wholesalers so that all Chemists obtain their fair share. The demand is ever increasing but the shortage of raw material is a matter we know you will understand.

There is no shortage of **RENDELLS** or **MENSINOLE** and all Wholesalers now have ample stocks, so continue to display Rendells Products for Feminine Hygiene. It creates new customers and gives confidence to regular users.

Special Chemists' Display Material is still available, so write to-day for a supply.

RENDELLS PRODUCTS

For Feminine Hygiene

V J RENDELL LTD · HARDWICK HOUSE · 161-5 ROSEBERY AVENUE · LONDON E.C.1



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SPECIALISTS

in the manufacture of

PILLS and

TABLETS

ARTHUR H. COX & CO LTD, BRIGHTON

Established over 100 years

**'SURE
SHIELD'**



Products

Due to shortage of supplies, combined with the curtailment of our staff, we wish to assure our many trade friends that we are using every effort to maintain an equitable distribution of our Products.

Please Note

- 1st. All Orders are forwarded in strict rotation and we are now 5-6 weeks behindhand in delivery.
- 2nd. Due to the position, all additions can only be treated as separate orders

Sugar Confectionery Order

All our products are Medicinal and not subject to the above order, and as such, are subject to Purchase Tax. Our printers have in hand a range of formula labels to meet the requirements of customers who retail goods from bulk parcels—these will be supplied at a nominal charge.

Thos. Guest & Co. Ltd. *Manufacturing Chemists*
Carruthers Street, Manchester, 4

"National" Dispensing Bottles

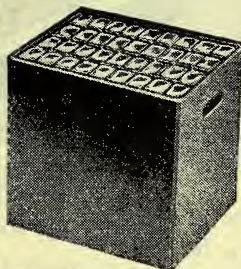
are Strong, Serviceable and Sure-sealing !

NEATLY PACKED IN 6 DOZEN
NON - RETURNABLE CARTONS

- ★ CONVENIENT IN SIZE
- ★ EASY TO HANDLE
- ★ UNIFORM IN QUALITY

ALSO . . . Cork mouth bottles
WASHED & PAPERED
Screw mouth Bottles
WASHED & CAPPED

SCREW CAPS SUPPLIED in
WHITE-ENAMELLED TIN PLATE



Vials

of "NATIONAL" quality

Ranging in size $\frac{1}{2}$ oz. up to 3 oz.
Plain or teaspoon graduations
Medium and tall types

MANUFACTURED IN BEST QUALITY
WHITE FLINT, AND PACKED IN FREE
NON-RETURNABLE CARTONS



Restrictions outside our control, may
not allow us to meet every requirement

National Glass Works (York) Ltd.

Works: FISHERGATE, YORK
Telephone: York 3021

London Office: 105 HATTON GARDEN, E.C.1
Telephone: Holborn 2146

WHOLESALE ONLY



'SUCRETS' Lozenges promptly soothe irritated throats



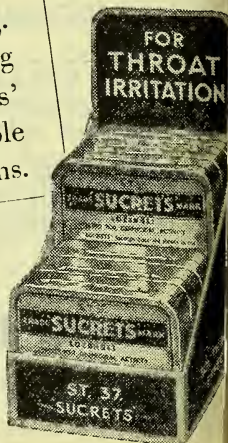
INSTEAD of a few halfpennies from a 3d. or 6d. sale, you make 5d. to 7d. on every box of 'Sucrets' lozenges at 1/5 (inc. tax). Customers find the prompt relief that 'Sucrets' bring to irritated throats warrants their paying a little more. They appreciate your recommending a superior medication. 'Sucrets' users are fast increasing. "Pick-up-sales" are frequent. By devoting a few inches of prominent display to 'Sucrets' lozenges you will enjoy steady, dependable turnover with unusually high unit-returns.

Sharp & Dohme Ltd

MULFORD BIOLOGICAL LABORATORIES

HODDESDON

HERTS





*Efficiently at
Your Service!*

THE HOUSE OF MAW

**"All we
can...
as soon
as we can"**

More and more man-sized jobs are being done by women. These strenuous days are convincing thousands of the practical advantages of Tampax. That's why so many of our customers have been getting more enquiries than ever before. But war conditions also mean restricted supplies. That's why there is not always sufficient Tampax to meet the demand. Be assured please that we are sending you all we can as soon as we can . . . that we're dealing with orders in strict rotation . . . and that every new sale is building business for days when supplies will no longer be scarce.

TAMPAX TRADE TERMS (P.A.T.A. Prices)

Packets of 3. Wholesale 5/3 doz. Retail 7d. packet

" " 10. " 15/9 " " 1/9 "

Manufactured in England by TAMPAX, LTD. Belvue Rd., Northolt, Middx.

Sole Distributors: **SPLENDOR LTD.** 5 Beasimarket Hill, Nottingham, & 7c Lower Belgrave Street, London, S.W.1

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of Experts

BRITISH
MADE

NO HIGHER
IN PRICE THAN
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and Works Thermometers,
the best of their kind

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For all types of
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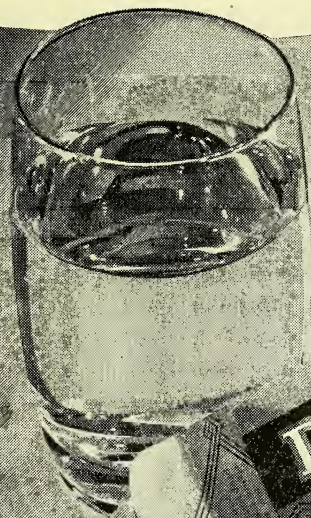


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Clearly, it is in the best National Interests for Dō-Dō Asthma Tablets to continue to be available to the largest possible number of Asthma subjects, especially those on war work.

In Dō-Dō Tablets you have a product you can recommend with the completest confidence in its ability to do all that is claimed for it.

INTERNATIONAL LABORATORIES LTD

CHARLBURY
OXFORD
CHARLBURY 29

Dō-Dō

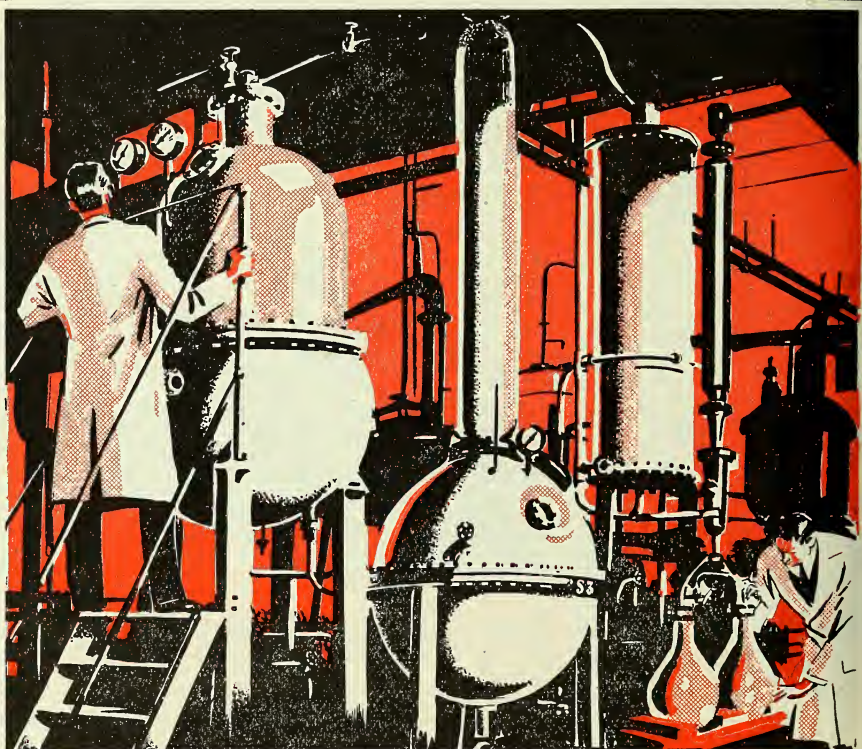
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Doing a War Job Well



ESSENTIAL OILS

Fine Quality in Essential Oils is not readily defined. Nor is it to be secured automatically—for even the most up-to-date scientific control of distillation still leaves ample scope for individual craftsmanship. We take it, therefore, as a tribute both to our skill and to the knowledge we have accumulated since 1833, that StaffAllens Essential Oils should be recognised throughout the world, and everywhere accepted for their superior quality.

CLOVE OIL

LAVENDER OIL

NUTMEG OIL

CASCARILLA OIL

PEPPERMINT OIL

ETC.

StaffAllens

STAFFORD ALLEN & SONS LTD

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THAN EVER IS THE
DEMAND FOR**



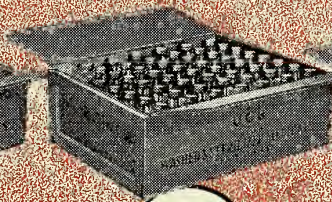
**PERFECTED
WHITE
CAP**

U.G.B.

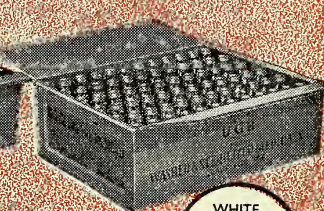
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MOUTH**



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METAL
SCREW-CAP**



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KORKALITE
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CAP**

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—READY FOR USE—
THE IDEAL
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IN ANY EMERGENCY**

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PROPRIETOR
(H. A. TOLKIEN)

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A diastatic food compound of
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QUININE PESSARIES

In boxes of 12. 11/6 dozen boxes

" " " 6. 6/- " "

'BIRLOIDS' BRAND LIGHTNING
CONTRACEPTIVE FOAM TABLETS

In tubes of 12. 14/6 dozen tubes

LATEX F.B. TEATS CHERRY 12/6 gross

THERE IS NOT SUFFICIENT

Beaulah's

FAMOUS
MALTED
MILK

FOR ALL THE PEOPLE
WHO WANT IT

Our policy therefore is to endeavour
to maintain supplies to our regular
"OLD FRIENDS"

In three popular sizes only during
the war, 1/-, 2/- & 4/-

J. & J. BEAULAH LIMITED,
BOSTON, Lincs.



you make tablets, the

MANESTY

OSCILLATING GRANULATOR

is a necessity

MATERIAL to be compressed should be in the form of uniform granules, otherwise irregularities in the tablets will result. Granulation can be done by hand, such a process is slow. The Manesty Oscillating Granulator does the work of four to six operators and produces granules of uniform size. Its output is about 150 lb. per hour, and thus greatly reduces time and costs. The size of the granules can be varied by changing the size of the stainless steel screen. Three stainless steel wire screens are provided with each machine—No. 10, 12 and 14 mesh.

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Reasons why Manesty Oscillating Granulator is best:—It gives uniform granules of any desired size.

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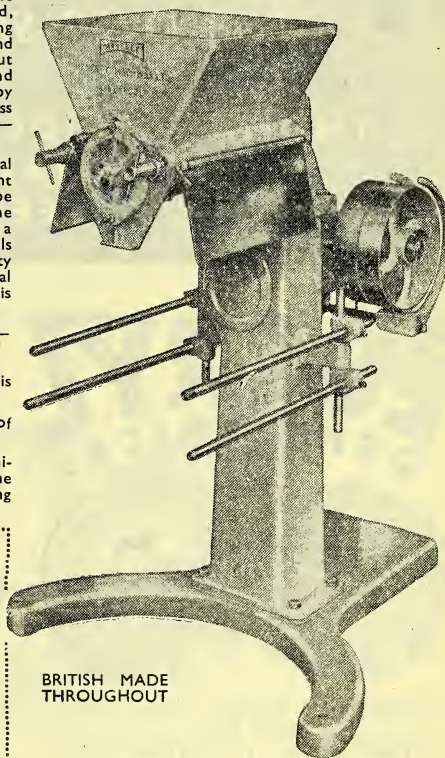
It does the work of four to six operators at a fraction of the cost.

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Lubrication ..	Grease gun
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" Gross ..	500 lb.

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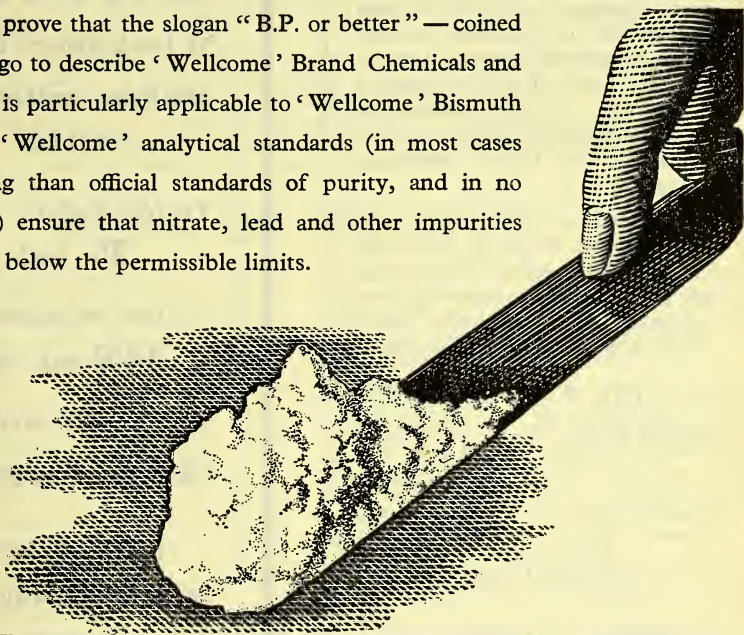
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NEWS OF THE WEEK

Imports of Buchu Leaves.—The Import Licensing Department of the Board of Trade announce that they are prepared to consider applications for licences to import buchu leaves. For particulars, see *Trade Report*, p. 475.

Shaving Preparations.—A further ruling has been given by the Customs and Excise authorities on shaving creams, which amplifies the information given in the *C. & D.*, April 18, p. 444. Shaving soap and shaving creams containing soap continue to be taxable at 33½ per cent. Shaving creams which do not contain soap are chargeable with purchase tax at the rate of 66⅔ per cent.

Exports of Heavy Chemicals.—Under an Order made by the Board of Trade which came into force on April 21, the control in respect of certain heavy chemicals is withdrawn and, apart from certain destinations to which the exportation of all goods is prohibited, no licences will, in future, be required to export the following goods: alkali, whether ground or not, including washing; caustic soda; salt; sodium carbonate; sodium carbonate; sodium

silicate; sodium sulphate. Copies of the Order—the Export of Goods (Control) (No. 19) Order (S.R. & O. 1942, No. 711, price 1d.)—will be available shortly at H.M. Stationery Office, London, W.C.2.

Statutory Committee.—The Statutory Committee of the Pharmaceutical Society will meet at 36 York Place, Edinburgh, 1, at 2.30 p.m. on April 29, to consider information and evidence received from which it appears that a member of the Society was under the influence of drink while in control of a pharmacy.

N.H.I. Dispensing Fees.—It is understood that as a result of negotiations between the National Pharmaceutical Union and the Ministry of Health, which began early in 1941, the Ministry have offered an addition of one-sixth to dispensing fees for Insurance prescriptions. This increase is believed to be in the nature of a bonus which will be added to the total sum paid each month to chemists, and it has been suggested that the increase is to be retrospective to January 1, 1942. In view of the fact that negotiations were begun so long ago and

that the figures considered were those for 1940, it was expected that the antedating would have begun at least in 1941 and not 1942 as is suggested. A further statement of this matter is expected at an early date.

Trading with the Enemy.—The Board of Trade announce that they have made a new Order which came into force on April 18 containing 921 additions to the "black list" of traders in neutral countries with whom it is unlawful to have dealings of any kind. Copies of the Order—the Trading with the Enemy (Specified Persons) (Amendment) (No. 6) Order, 1942 (S.R. & O. 1942, No. 661)—are available at H.M. Stationery Office, price 6d.

Diabetic and Proprietary Breads.—A new General Licence, which comes into force at once, authorises the continued production of certain diabetic and proprietary breads, provided that at least three-quarters of the flour content is of 85 per cent. or higher extraction. The production of malt and aerated breads is also authorised, subject to the same condition. The need for the licence arises from the changed conditions resulting from the Bread (Control and Maximum Prices) Order, 1941. The following firms have been added to the schedule: For diabetic breads: J. T. L. Goode, Heudebert Foods Co., Ltd.; for rye bread: Adam Fleck, Ltd., Floris Bakeries, Ltd., and Zeller's, Ltd.

Dried Culinary Herbs.—A circular issued by the Ministry of Food states that more culinary herbs are needed, particularly for drying, to be used in flavouring soups and in the packet trade during the winter months of the year. Manufacturers of dried herbs are anxious to make contact with home-growers with the object of making contracts for definite quantities of either green herbs for drying or of herbs that have been roughly dried prior to dispatch. The chief kinds needed are parsley, mint, sage, thyme and marjoram. Growers who are interested to take up the production of herbs for the factories should apply for a list of licensed driers to the Dehydration Branch, Ministry of Food, Queen's Hotel, Colwyn Bay, at the same time making contact with their County War Agricultural Executive Committee in order to obtain the necessary permission to grow these additional acreages. Women's institutes and horticultural societies are being asked to arrange for the collection of surplus herbs in private gardens for use by the manufacturers.

Chemists' Friendly Society.—Mr. Sydney G. Home (chief pharmacist, Public Health Department of Glasgow Corporation) has been appointed *President* of the Chemists' Friendly Society in succession to Mr. Hugh V. Campbell. Mr. John T. West (chief pharmacist, Glasgow Royal Infirmary) becomes *Vice-president*.

Diploma in Biochemical Analysis.—In the examination for the diploma in biochemical analysis of the Pharmaceutical Society held in London in April, one candidate, Thomas Douglas Whittet, passed, one candidate failed and one was absent. In the examination held in Scotland the following candidates satisfied the examiners: John Doig Adam and William Girgis Farag.

Post-War Surplus Disposal.—In a statement recently issued on trade reconstruction problems after the war, the Oldham Chamber of Commerce urges that in the disposal of surplus stocks of manufactured goods and raw materials in the ownership of the Government, at the end of the war the method of disposal ought not to be by public auction or tenders. Their view is that each industry or representative trade association should be encouraged to prescribe the best means of disposing of surplus stocks of manufactured goods, so as to preserve the ordinary channels of distribution.

Kinninmont Prize Competition.—Revised conditions have been made known for the annual competition for the Kinninmont prize, instituted in 1894 by the late Mr. Alexander Kinninmont, Ph.C., F.C.S., for pharmacy students in Glasgow and the West of Scotland. The competition is open to all students in the area covered by the Glasgow and South-western Scottish Branch of the Pharmaceutical Society who are attending or have attended an approved course of instruction for the Preliminary Scientific examination. The prize—a scholarship valued at ten guineas, tenable at the Royal Technical College, Glasgow—will be awarded on the result of a written examination in chemistry, botany and physics of a total of three hours' duration, held in Glasgow in May or June of each year. Intending candidates should send their names to the secretary before May 1. Should the successful candidate be too young to pursue the course of study for the Qualifying examination, the award of the prize will be deferred until he reaches suitable age (say twenty years) for profit by the award.

Northern Ireland Register.—The Register for 1942 of the Pharmaceutical Society of Northern Ireland has been issued. The list contains two more pages than the 1941 register, owing to increases in the number of pharmaceutical chemists and of apprentices. A grey cover serves to distinguish the register immediately from the previous green one.

Drug Economics Urged in Eire.—The Eire Department of Local Government and Public Health, in a letter to the Dublin Board of Assistance, recently urged the strictest economy in the use of medicine and drugs. Very few, the letter stated, were obtained from native sources, and in the present world conditions difficulties of supply had already arisen and might be expected to increase. The Board has been urged to secure forthwith substantial supplies of drugs that are regarded as essential for the preservation of life.

Sulphonamides as Poisons.—The Eire Official "Gazette," March 17, stated that the Government, by Order dated March 10, 1942, had approved of the following resolution, which was passed by the Royal College of Physicians of Ireland on December 5, 1941: "That the President and Fellows of the Royal College of Physicians of Ireland in exercise of the powers vested in them do recommend that the following be added to Schedule A, Part I of the Sale of Poisons (Ireland) Act, 1930: Para-aminobenzenesulphonamide; its salts. Derivatives of para-aminobenzenesulphonamide having any hydrogen atoms of the para-amino group or of the sulphonamide group substituted by another radical; salts" (see p. 458).

Irish Drug Association.—Mr. F. X. Maghera (president) was in the chair at a meeting of the committee of the Irish Drug Association on April 7. On the motion of Mr. T. R. Bourke, seconded by Mr. L. G. Smith, the secretary was instructed to purchase and lodge sufficient securities to qualify the Association for a negotiation licence under the Trade Union Act, 1941. Discussion took place on the terms of an agreement with the Assistants' Union, and the secretary was directed to write to the chemists' branch of the Irish Union of Distributive Workers and Clerks on the rentiership question and on the hours opening and closing observed in the Dublin area. In answer to a query the committee deemed it unwise to fix a price for alcohol with duty rebate, as spirit may be sold in this way.

Baby Food Shortage in Eire.—The manufacturers of baby foods in Eire are having a difficult time because of almost complete exhaustion of stocks of flake oatmeal and barley. Unless the Government grants licences for essential materials, some of them may have to close down. One manufacturer required a licence for twelve tons of oats a month in order to receive six tons of flake-meal from his millers. The same firm requires about eighteen tons of barley a month to keep going. Stocks in hand have kept all the baby food manufacturers in production up to the present, but an acute situation has now arisen; urgent representations are being made to the Department of Supplies.

Chemists' Organisation in Western Ireland.—The quarterly meeting of the co. Sligo branch of the West of Ireland Chemists' Association was held recently, Mr. T. P. Toher (county chairman) presiding. Representatives from North Leitrim, South Donegal, and co. Mayo were also present. Mr. GEORGE HEWSON (co. Mayo chairman) congratulated the Sligo Branch on its work in organising adjoining areas, and urged non-members to support the Irish Drug Association and link up with the organisation without delay. Mr. KIERAN, North Leitrim, assured the meeting of the support of co. Leitrim chemists. Mr. H. T. McCLELLAND, South Donegal, stressed the need for organising in the area he represented and declared that support would be forthcoming in South Donegal if further efforts were made. Mr. McKANE (co. Mayo secretary) reported on progress made in his area and outlined prospects of extending the organisation in the province. The meeting expressed appreciation of the amount of work done by the Mayo branch, and noted with satisfaction the forecast that the full provincial machinery of the I.D.A. would be in operation about the middle of the summer. Other speakers were MESSRS. ADAMSON, Ballina; McGUIRE, Ballyshannon; GILMARTIN, Bandon; CHAMBERS, Manor Hamilton; DURCAN, Ballina; SMITH, ORR, and MULREANY, Sligo. It was decided to incorporate North Leitrim with co. Sligo and South Leitrim with co. Roscommon pending further division of the co. Leitrim organisation. Arrangements were made for further organising chemists in co. Donegal, and it was decided to speed up all organisation work so as to be well prepared for any legislation that might result from the forthcoming report of the Vocational Organisation Commission.

TOPICAL REFLECTIONS

A Fortuitous Concourse?

Reading the names of the eight substances officially sanctioned for importation from the United States (p. 444), one is reminded, by contrast, of a memorable sentence of Sir Matthew Hale (1609-76) to the effect that the universe is not a fortuitous concourse of particles. An examination question on the classification of these drugs according to their utility might yield interesting results. The lists of essential and non-essential drugs drawn up by the Therapeutic Requirements Committee of the Medical Research Council, published in your issues of October 5, 1940, and March 22, 1941, show that hamamelis and lobelia were at that period regarded as non-essential, while there appears to be no trace of three of the other six. We may pertinently ask what has happened during the intervening months to render these once non-essential items worthy of shipping space. Surely it cannot be the mere circumstance that stocks have accumulated in some inconvenient place. Leaving this mystery, we may note as a coincidence the presence of podophyllum resin and leptandra root in the same list. The rhizome of *P. peltatum* was introduced into the United States Pharmacopœia in 1820, and became official in this country in 1864. Its resin, podophyllin, has long been recognised as a powerful cholagogue. Fatal poisoning by it has been rare: a death from it occurred in Scotland in 1893, and one south of the Border in 1920. A case came to my notice (possibly that of 1893) in which the patient died after being given three grains in error. At one time there was a vogue for leptandrin and two other mild hepatic stimulants (if they are stimulants), euonymin and iridin, sometimes in combination with each other and with podophyllin: pills containing some or even all of them were dispensed, and are still to be found in compressed tablets.

Municipal and Co-operative Trading

Speaking at Middlesbrough recently, the secretary of the Pharmaceutical Society remarked (p. 436) that "municipal and co-operative trading were likely to extend." This must be regarded as an opinion rather than a forecast. There will be general agreement with Mr. Linstead's next sentence: "The independent trader must build up an organisation on a large scale, to compete with the big man." A muni-

cipality is one kind of "big man": a co-operative society is another. Chemists who are members of borough councils are in a position to watch developments in public policy at close range; others can best approach the subject through their organisations. No one, I presume, desires to put the clock back by depriving these councils of statutory powers that are, or are likely to be, beneficial to the community. But the appropriate limits of municipal trading should be understood and observed. Broadly it may be said that public service such as the supply of water and electricity power are safely to be entrusted to corporations of this type, but that the supply of goods involving the factor of competition is best left to the interests with which it has long been associated. As to the trading of co-operative societies, its benefit is to my mind as illusory as the kind of business involving the use of trading stamps. Both are calculated to make uninstructed people think that something can be obtained for nothing.

The Old and the New

A few minutes after reading the attractive article by Elizabeth Hess on the collection of broom (p. 446), I came upon a letter by Professor Mellanby in "The Times" setting forth clearly the chief reason for the addition of calcium carbonate to flour. A long distance separates the first decoction of *Cytisus scoparius* from study of the action of phytic and phosphoric acids in the alimentary canal. Opinions have differed as to whether Dioscorides and Pliny referred to the same plant when describing broom. In either case, our common broom figure in old herbals and is known to have been a popular medicament in the Middle Ages. The plant has had several names. Did it grow in prehistoric times near Brandon where the collectors mentioned in your contributor's article found it? However this may be, Brandon has for uncounted centuries been the site of one of the oldest industries in the world, flint-knapping. Not having at hand Mr. R. H. Mottram's book on East Anglia, I can only commend it to your readers in general terms for treatment of this fascinating subject, of special interest for its bearing on the well-known flint churches of the area. A friend who explored some of the ancient flint workings described his visit as an adventurous experience.

Xrayser

LEGAL REPORTS

No Pharmacist in Charge.—At Scunthorpe, on April 11, Littlewoods Mail Order Stores, Ltd., were fined £5 for selling laxative vegetable tablets without having a registered pharmacist in charge. Mr. W. R. Roberts, a Pharmaceutical Society's inspector, gave evidence of purchase, being served by a girl. He inquired for the chemist, whose card was displayed over the counter, but was told by the manager that he had gone to Manchester to visit his wife, who was ill. There were four bottles of this laxative on the counter, alongside other non-poisonous compounds in bottles bearing a very similar label. Under the counter there was a box containing fifteen bottles. The bench decided a technical offence had been committed and imposed a fine as above.

Pharmacy as Drug Store.—At Liverpool Police Court, recently, Mrs. Marguerita May Wood, 603 Smithdown Road, was summoned for selling compound syrup of hypophosphites containing strychnine, she not being a registered seller of poisons. There was another summons for the unlawful use of the word "pharmacy" in connexion with this business. It was stated that defendant conducted another business at 11 Allerton Road, Liverpool, where there was a registered pharmacist in charge. When the inspector visited the Smithdown Road shop, she noticed that the sign "Lady's Cash Pharmacy" had been painted out. Later, she called and purchased a bottle of compound syrup of hypophosphites, on which there was a label "Lady's Cash Pharmacy." Defendant explained that until recently each of the two shops was in charge of a registered pharmacist. When the man left the Smithdown Road shop to join the Forces she gave instructions for the business to be conducted as a drug store, but apparently not all the stock which ought to have been removed was taken away. This bottle and the old label had been overlooked. Defendant was fined £2 on each of the two summonses.

Smaller Sized Dividend Warrants.—The salvage and Recovery Board suggest that paper can be saved by companies printing their dividend warrants on much smaller pieces of paper. It's an idea. A cut in proportion to the net amount now received from investments, after income tax deduction, would make most warrants something like a postage stamp.

COMPANY NEWS

THOMPSON FERTILISERS, LTD. (P.C.).—Capital £4,000. Manufacturers of and dealers in fertilisers, chemicals, dyes, etc. Michael and John W. Thompson, directors. Solicitors: Wray, Smith & Halford, 19 Buckingham Street, London, W.C.2.

E. R. DIXON, LTD. (P.C.).—Capital £3,000. To acquire the business of a chemist, optician and surgical, photographic and scientific apparatus maker carried on at 194 High Street, Lincoln (R.O.), by Ernest R. Dixon, M.P.S. (first director).

W. B. NICOLSON (SCIENTIFIC INSTRUMENTS), LTD. (P.C.).—Capital £10,000. Scientific instrument makers and laboratory furnishers, etc. William H. Nicolson, John E. C. Baily, Charles B. Chartres, Charles L. Prior, and John Nicolson Speirs, directors. Registered in Edinburgh.

H. & U. J. MORRIS, LTD. (P.C.).—Capital £2,000. Wholesale or retail consulting, analytical, manufacturing, pharmaceutical and general chemists, opticians, druggists' sundriesmen, etc. Hayward Morris, M.P.S., and Una J. Morris, both of Rexall Pharmacy, High Street, Bordon, Hants, directors.

PINKERTON, GIBSON & CO., LTD.—Mr. Scott, formerly representative of the company in the West of Scotland, has been made a director.

CADER AERATED WATERS, LTD.—At a meeting held at Dolgelly on April 7 it was resolved that this company should be wound up. Mr. F. Wilkinson, 55 Brown Street, Manchester, 2, was appointed liquidator.

BEECHAMS PILLS, LTD.—Directors have decided, in view of unavoidable delay in preparation of report and accounts for year ended March 31, to pay third interim dividend of $14\frac{1}{2}$ per cent. actual, less tax, on deferred shares, making, with the two interims already paid, a total of $28\frac{1}{2}$ per cent. actual, less tax, for the year.

Bankruptcy.—**WILLIAM HENRY JOHNSTONE**, Netherleigh, Oriental Road, Woking, Surrey, formerly a director of limited companies. The first meeting of creditors was held on April 17. Statement of affairs showed gross liabilities of £11,595, of which £11,553 was expected to rank for dividend, with net assets of £23, or a deficiency of £11,510. Public examination at the Guildhall, Guildford, Surrey, at 11.15 a.m. on May 5.

PHARMACEUTICAL SOCIETY of IRELAND

A MEETING of the Council of the Pharmaceutical Society of Ireland was held on April 14, Mr. P. C. Cahill (president) in the chair. Other members of the Council present were Messrs. J. Gleeson, F. J. Fitzpatrick, P. Brooke-Kelly, T. S. Scott, J. K. Whelehan, Sir T. Robinson, D. W. P. Boyd, H. P. Corrigan, C. J. Cremen, J. A. O'Rourke, M. J. Parkes, B. P. Hickey, J. Duggan, and Miss F. M. Flood.

Army Pharmacists' Pay

A letter was read from the Ministry of Defence regarding the rates of pay of pharmacists in the Army. THE PRESIDENT mentioned that he was in touch with Army personnel in connexion with the subject, and it was decided to leave the matter in the president's hands.—The secretary of the Pharmaceutical Society of Great Britain wrote enclosing the Third Supplement to the Codex. Replying to THE PRESIDENT, THE REGISTRAR (Mr. J. J. Kerr) said he did not think a new Pharmacopœia would be issued during the war.

Mrs. Honora Mahoney (*née* Kennedy), Assistant, wrote desiring change of name on the Register, and the application was granted.—The following who submitted matriculation certificates were granted Preliminary registration: Miss M. M. Coyne, Messrs. H. Horan, G. V. Lynch, and P. C. Owens.—The following changes of address were notified: Mr. P. J. Hogan, M.P.S.I., to 51 Marguerite Road, Glasnevin; Mr. P. Kelly, M.P.S.I., to 120 Summerhill, Dublin; Mr. R. H. Callan, L.P.S.I., to 30 Knowle Terrace, Burley Hill, Leeds, 4; Mr. R. S. Maher, L.P.S.I., to 257 Roundhay Road, Harehills Parade, Leeds, 8.—The following removals under Section 25 of the Pharmacy Act were reported: J. E. Devitt, L.P.S.I., J. Copithorne, L.P.S.I., Mrs. L. F. A. Davis, L.P.S.I., W. Kirkwood, L.P.S.I., Assistant, D. N. Stewart, L.P.S.I., Assistant, R. D., Miss Mary Cummins, L.P.S.I., and J. F. Webb, L.P.S.I., R.D.—The following were elected to membership: Miss S. O'Beirn, Mr. C. S. O'Hare, and Dr. William Power.—Mr. J. P. S. Gallagher, Westenra Park, Monaghan, was nominated for membership of the Society—The Licence certificate of Mr. M. C. White was signed and sealed.

Part I Poisons

When the House Committee report was submitted THE REGISTRAR drew the attention of the Council to the fact that a Government Order making the sulphona-

midé drugs Part I poisons in Eire had appeared in the official "Gazette," and Mr. PARKES asked that information to this effect be published (*see* p. 445). The report of the House Committee was approved.—The reports of the Law, Schools, and Certificates and Declarations Committees were also submitted and approved. The report of the last-mentioned Committee stated that fifty-eight candidates had entered for the April Licence examination.

THE REGISTRAR reported on the deaths of C. S. Tynan, M.P.S.I., E. S. O'Connell, M.P.S.I., and Samuel Gibson, R.D.

Benevolent Fund

At a meeting of the Benevolent Fund Committee held following the Council meeting two grants were passed for payment.

RECENT RESEARCH

Bile Salts as Cathartics.—A study of the effect of bile salts as cathartic agents on mice was carried out by Hazleton and Fortunato ("Journal of the American Pharmaceutical Association," xxxi. 2, 60). The threshold cathartic dose was determined, and it was found that daily administration of lesser amounts induced no tolerance to the full effect of the cathartic dose, but rather an increased susceptibility.

Wheat-flour Proteins.—A study of weight increase of young rats on diets of which the protein was derived solely from wheater flours of different degrees of extraction of the grain has been made by Chick ("Lancet," April 4, p. 405). The flours compared—wholemeal (100 per cent. extraction), national wheatmeal (85 per cent. extraction) and white flour (73-75 per cent. extraction)—were always obtained from the same sample of wheat. The diets contained adequate provision of all other known essentials, so that the supply of protein was the factor limiting growth. The growth rates on diets containing 10.5 per cent. and 12.1 per cent. of wholemeal proteins were found to be slightly better than those of diets containing 13.1 per cent. and 15.4 per cent. of white-flour proteins, indicating that 10.5 gm. of the mixture of proteins in the whole wheat was as useful to the rat as 13.1 gm. of white-flour protein. The results of different experiments showed an advantage over the protein in white flour of 17-26 per cent. for the proteins of wholemeal and 13-16 per cent. for those of wheatmeal.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

MEETING of the Council of the Pharmaceutical Society of Northern Ireland was held at 73 University Street, Belfast, on April 17, Mr. James Glendinning (president) in the chair. Others present were: Messrs. F. Moore (vice-president), J. T. Nicholl (treasurer), Charles Abernethy, James Donaghy, John Gray, J.P., J. F. Grimes, P., S. H. Forrest, James McDowell, John McGregor, Walter C. Tate. The secretary (Mr. D. L. Kirkpatrick) was in attendance. The co-option of a druggists' representative to fill a vacancy on the Council was deferred until the next meeting.

The following candidates were elected members of the Society on the motion of Mr. J. McDOWELL, seconded by Mr. J. DONAGHY: Messrs. James Cathcart Boyle, Penkeen Avenue, Jordanstown, co. Antrim; Patrick Andrew MacKenzie, 280 Falls Road, Belfast; Henry O'Doherty, Louisa, Donemana, co. Tyrone; and George Young, Clogher, co. Tyrone.—Nominations for membership were received from Messrs. James Joseph Fitzsimons, 19 Caulfield

Terrace, Newry, co. Down, and Kenneth Nixon Emery, 15 Lucerne Parade, Stranmillis, Belfast.

Mr. JAMES DONAGHY raised the question of the Council having discipline over members of the profession as regards their actions, but THE SECRETARY, in reply, mentioned that the Committee had already turned this proposal down, as they thought they could not set themselves up as a court of law. THE PRESIDENT was of the opinion that the Council should have some power in that matter.

Mr. H. F. MOORE told of a visit he paid to Mr. W. Martin, one of their members, when he was accompanied by the secretary. Mr. Martin had to leave Belfast after a "blitz." THE PRESIDENT said he was pleased to learn of this visit and remarked that it was just like the vice-president's thoughtfulness. He would suggest that a letter of sympathy be sent to Mr. Martin from the Council saying that they would be very glad to have him at their meetings when his health permitted.

AMERICAN NOTES

Red Cross Donation.—The Drug, Chemical and Allied Trades Section of the New York Board of Trade has presented to the American Red Cross a sum of \$6,000, proceeds of the seventeenth annual banquet of the Section.

N.Y. Buying Organisation Fêted.—The Druggist Supply Corporation, New York, buying organisation for a number of wholesale druggists, was entertained to dinner recently for the third successive year by Magnus, Mabee & Reynard, Inc., essential oil importers, New York.

Loss to Detroit Pharmacy.—Mr. Wilbur Scoville, who for ten years prior to 1934 was head of the analytical department of Parke, Davis & Co., Detroit, died at Gainesville, Florida, on March 10, aged twenty-seven. Mr. Scoville was noted as teacher and author of works on practical pharmacy. For many years he was a member of the United States Pharmacopœia and National Formulary revision committees.

Defence Manual for Pharmacists.—A manual for United States pharmacists,

instructing them in ways in which they can take part in civil defence, and based largely on experiences of British pharmacists under bombing attacks, has been issued. The Manual explains the organisation of civil defence and emergency medical services, gives reasons why pharmacies are unsuitable for administration of treatment to the public, and outlines the place which pharmacists should fill in local programmes. Pharmacists are asked to do everything in their power to familiarise the public with the Emergency Medical Services and to place signs in their pharmacies listing the positions of wardens' posts, police and fire stations, shelters and casualty stations, and instructing people to obtain first-aid treatment at authorised First Aid or Casualty Stations; also to prepare themselves by taking Red Cross first-aid courses and setting up emergency kits of essential drugs and supplies to be instantly available when the occasion demands their use. The designation Pharmaceutical Unit has been approved. Pharmacists are also asked to equip their pharmacies with radio sets.

NEW LIMBS FOR OLD

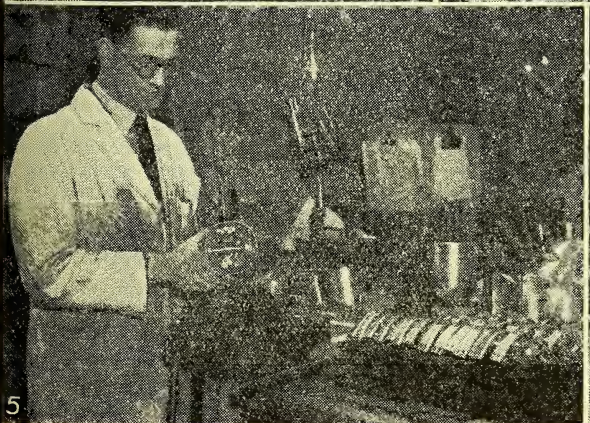
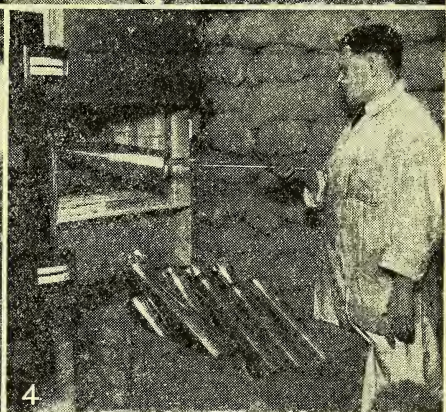
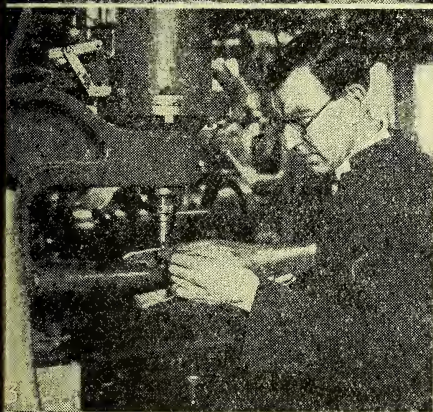
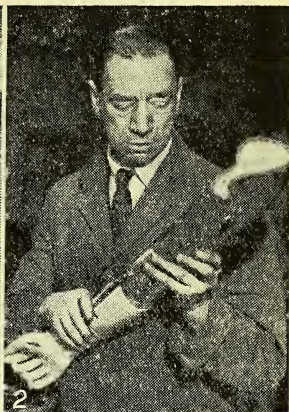


The illustrations on the opposite page show stages in the manufacture of artificial limbs (1) Hand-modelling department. (2) Assembly of artificial arms. (3) Pneumatic riveting of artificial legs. (4) Electrically-controlled furnace for artificial-leg light metal. (5) Assembling wheel-controlled mechanism for knees—described as “the nearest approach to the natural knee action.” (6) Covering a willow foot with rawhide. Above. (1) Examination by limb-fitting surgeon. (2) Bench mechanic engaged in artificial limb production. (3) Artificial arm with shoulder control. (4) Patient wearing artificial leg for short-thigh amputation, who is able to dance, horse-ride and drive a car.

THIS series of photographs has been taken at the Artificial Limb Works, London, S.W. The activities of the limbmakers, responsible to the Ministry of Pensions for the supply and upkeep of artificial legs and arms for the limbless of the Great War and present War, are carried out in a modern factory adjacent to the Ministry of Pensions' main limb-fitting centre. Today, over 400 employees are engaged solely upon this work. Fifty of them are limbless ex-Service men who, after

rehabilitation, were trained in this highly skilled work of making and fitting artificial legs. This is the only organisation where it is possible to have fitters specialising in each site of leg amputation. The progress made in the science of leg making and fitting in this country has been so marked that the artificial leg made by the Ministry of Pensions' contractors has been adopted by the Commonwealth of Australia, Dominion of Canada, the Union of South Africa and New Zealand.

ARTIFICIAL LIMBS IN THE MAKING



NEW ADDENDUM TO THE B.P.

THE General Medical Council will publish shortly a Fifth Addendum to the British Pharmacopœia, 1932, in which certain new monographs, and certain modifications of existing monographs, will be included. It is not possible to provide for the preliminary inspection of the completed Addendum as in normal times, but arrangements have been made for a limited number of advance proofs to be available for supply, on application, to manufacturers of the preparations described therein. No additional monograph, or emendation of a monograph, is official until the Fifth Addendum has been published. Manufacturers interested in the production of the articles included in the Addendum are invited to apply to the Secretary, British Pharmacopœia Commission, University College Hospital Medical School, University Street, London, W.C.1, for advance copies of the proofs.

The following are brief details of the new monographs:—

EMULS. CHLOROF.—Contains chloroform, 5 per cent. quillaia and tragacanth. Dose, 5–30 Ml.

EMULS. MENTH. PIP.—Peppermint oil, 10 per cent. and quillaia. Dose, 5–30 Ml.

EXT. QUILLAIA LIG.—Quillaia percolated with alcohol, 45 per cent. Twenty times (approx.) the strength of tr. quillaia. Dose, 1½–3 Ml.

EXT. SCILLA LIG.—Squill percolated with alcohol, 70 per cent. Ten times (approx.) the strength of tr. scilla. Dose, 2–8 Ml.

LIG. ÆTHYL. NITRIT. CONC.—Not less than 17 per cent. ethyl nitrite, when fresh, in alcohol, 95 per cent. Eight times (approx.) the strength of sp. æther. nitros.

LIG. AMMON. AROMAT.—Contains the same ingredients as sp. ammon. aromat. but less oils and only 3.75 per cent. of alcohol.

TINCTURE CONCENTRATE.—Made by prescribed general processes—maceration, percolation, etc. The process to be used for each is laid down in the monographs, but other methods can be used if the product is indistinguishable from a concentrated tincture made by the prescribed process. The following are included, with their doses: Tinct. aurant. conc., 8–15 Ml; tinct. capsici conc., 1–4 Ml; tinct. cardam. co. conc., 8–15 Ml; tinct. cinchon. co. conc., 8–15 Ml; tinct. gent. co. conc., 8–15 Ml; tinct. limon. conc., 8–15 Ml.; tinct. lobel. æther. conc., 1½–4 Ml; tinct. opii camph. co., 4–8 Ml; tinct. quassia conc., 8–15 Ml; tinct. tolu. conc., 8–15 Ml; tinct. valerian ammon.

conc., 8–15 Ml. All the concentrated tinctures are four times the strength of the ordinary tinctures with the exception of tinct. opii camph. conc. which is about eight times the strength.

The following are the amended monographs:—

BELLAD. PULVERAT.—This is prepared from leaves of *Atropa Belladonna* or *A. lutescens* or a mixture of the two, adjusted, if necessary, by admixture of powdered or exhausted belladonna leaf, to give 0.3 per cent of alkaloids.

BELLAD. FOL.—*Atropa lutescens* Jacqueur (Indian belladonna) is an alternative source of belladonna leaf. The leaf of this plant contains not less than 0.15 per cent. alkaloids calculated as hyoscyamine.

BELLAD. RAD.—*Atropa lutescens* is an alternative source. The root contains not less than 0.25 per cent. alkaloids.

DIGOXIN.—Additional details to sterilisation requirements.

EXT. BELLAD. LIG.—*Atropa lutescens* may be used in its preparation.

EXT. FILICIS.—Arachis, cottonseed or sesame oils may be used in place of olive oil.

LIN. BELLAD.—*Atropa lutescens* may be used in its preparation.

MENTHOL.—This is lævo-menthol, natural or synthetic, or racemic menthol, or any mixture of the stereoisomers of *p*-menthan-3-ol.

MEPACRINÆ METHANOSULPH.—Purity calculated with reference to the substance dried over sulphuric acid in a vacuum desiccator. Injection solution prepared by dissolving in sterilised water.

SYR. AURANT.—Contains tinct. aurant. conc., 3 per cent.

TINCT. BELLAD.—*Atropa lutescens* may be used in its preparation.

The Addendum will also contain the following amendment to the B.P. which became official on March 20, 1942: Extractum Malti. Revised Appendices relevant to the monographs named above and a cumulative index to the five Addenda to the B.P., 1932, will also be included.

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the under-mentioned articles will be appreciated:—

M/33. Sanaphos.
BP/31. Sagralin pills.
HB/29. Almerscerin glycerin substitute.
BS/32. Address of Iodress, Ltd.

PARLIAMENTARY NEWS

Inquiries About Tonic Manufacturer.—Mr. Thorne asked the Minister of Health, on April 15, what action he proposed to take in the matter of the proprietor of the Tonic Company, West Kensington, who had been charged with selling tonics which contained 99 per cent. of water. The Parliamentary Secretary to the Ministry of Health (Miss Horsbrugh) stated that the Minister was at present making inquiries about the case.

Price Control.—Mr. Crowder asked the President of the Board of Trade, on April 15, whether he proposed to take any action to adopt the proposals made by the Central Price Regulation Committee to control public auction sales where there was a danger that fixed prices might be grossly exceeded.—Major Lyons asked the President of the Board of Trade whether he would make any statement resultant upon his recent meeting with the chairmen of the price control committees; and whether he was now prepared to alter the machinery of price control so as to fix maximum

profits at all stages, on the lines recommended by the North Midland Regional Committee?

Captain Waterhouse: It is my right hon. Friend's intention to pursue a dynamic policy in controlling prices, and to this end he has discussed with the chairmen of the central and local price regulation committees plans for improving the machinery and extending the scope of control, and, in particular, for dealing with the two matters mentioned.

Retail Trade Committee.—Mr. Crowder asked the President of the Board of Trade, on April 15, whether he would press for an early conclusion of the investigations of the Retail Trade Committee, in view of the large number of persons whose plans depended on the action to be taken in this matter. The Parliamentary Secretary to the Board of Trade (Captain Waterhouse) replied that the Retail Trade Committee was well aware of the importance of its recommendations being made as soon as possible.

GLASGOW BRANCH ANNUAL MEETING

The annual meeting of the Glasgow and North-western Scottish Branch of the Pharmaceutical Society was held recently, Professor J. P. Todd (chairman) presiding.

Annual Report

The chairman said membership now totalled 1,301. War conditions had prevented the holding of district meetings, but the Glasgow meetings had been most satisfactory. The Branch finances were sound, and they had over £70 in hand. For the auditors, Mr. W. Wood Wilson reported that the books were in order, and complimented the secretary and treasurer (Mr. Robert McAdam) on his work.

Mr. A. B. Gilmour said the Branch's benevolent Fund contributions were the highest in nine years, but that Cardiff, Liverpool, and especially Cheltenham gave more generously. He urged more members to join the covenant scheme.

Office-bearers

Professor Todd nominated Mr. David Camell, Beith, as his successor, also thanking members and secretary for support during his term of office. The motion was carried. Other office-bearers elected were as follows: *Vice-chairman,*

Mr. Andrew Officer, Glasgow; *Secretary and Treasurer,* Mr. Robert McAdam, 1044 Dumbarton Road, Glasgow, W., whose honorarium was fixed at £35; *Librarian,* Mr. Thomas Newton; *Committee,* Messrs. E. J. B. Allison, H. Allison, W. S. Culbert, C. A. Buick, Colin Campbell, G. Dick, A. B. Gilmour, S. Hughan, S. G. Home, G. R. Milne, W. J. Moffat, R. McCrone, J. H. Ramsay, the Misses Paul and Suttie; *Auditors,* Messrs. W. Wood Wilson and W. Peebles; *Delegates to Conference,* Messrs. Gemmell, Officer, McAdam, Gilmour and Ramsay, expenses being fixed at £2 per day for two days.

Resolution Suggested

Resolutions for the forthcoming Conference were discussed, and it was agreed to submit one asking the Council to institute a Fund for the assistance of members and student associates who might require help as a result of their service in H.M. Forces. It was reported that Mr. Jack, Arbroath, was to retire from the Council, and it was unanimously agreed that the name of Mr. A. B. Gilmour should be put forward for co-option, letters supporting his nomination being read from Messrs. Guthrie and Ramsay.

TRADE NOTES

Pylostropin.—The strength of the lamellæ is 1/750 gr., and not as previously stated in a note on this product of Clay & Abraham, Ltd., Liverpool.

Tooth-brush Prices.—A new series of trade and retail prices of Tek standard-bristle and Nylon tooth-brushes has been announced, to take effect on May 1. Details are given in an advertisement in this issue. There will be no bonuses and no quantity terms.

Supplies Again Available.—The announcement is made by Wright, Layman & Umney, Ltd., 44-50 Southwark Street, London, S.E.1, elsewhere in this issue, that moderate stocks of Wright's Liquor Carbonis Detergens are again available to pharmacists. The medical profession is being advised of the improvements in stocks.

Purchase Tax Included in Advertised Price.—Stephen Matthews & Co., Ltd., point out that the new prices for Curicones, which have been widely advertised in recent months, include purchase tax. Supplies are at present at normal peace-time level, but the raw materials position makes it impossible to forecast how long this state of affairs will continue. Curicones are on the protected list of the Proprietary Articles Trade Association.

Non-toxic Sedative Elixir.—Hypnasol, which is described as an elegant, well-balanced sedative elixir, palatable, non-toxic and free from tendency to habit formation, has been introduced by H. R. Napp, Ltd., 3 Clements Inn, London, W.C.2. In Hypnasol the sedative action of urethane and hyoscyamus is reinforced by the inclusion of sodium bromide. The preparation, which is made in England, is issued in bottles of 4 fl. oz. and in dispensing packings containing 40 fluid oz. (approx.).

Correction.—In an advertisement by Moore Medicinal Products, Ltd., Aberdeen, in the *C. & D. Diary and Year Book*, 1942, the name Sperol appears in connexion with a product issued by the company. The makers point out that the advertisement was placed at a time when the exact spelling of the new name was in doubt, and it was subsequently—but too late for alteration of the advertisement in the *Year Book*—amended to Sperola, which is now the registered trade mark of the company. Readers are asked to make the necessary alteration in the *Year Book* (p. 67).

Liquid Manure.—Chemists who run a horticultural department or are situated near to allotments may well consider taking into stock Liquinure, a widely advertised liquid manure manufactured by Clemens Manufacturing Co., Ltd., 27 Burnt Oak Broadway, Edgware, Middlesex. Liquinure is a concentrated, odourless, non-staining liquid containing dissolved humus. Mixed with water at the prescribed rate it yields a large quantity of liquid manure equivalent to liquid stable manure, with the additional advantage that it is rich in phosphates and potash. Liquinure does not burn or injure leaves or plants if used in correct proportions. It is issued in three varieties (general onion special, and tomato special) in containers of four sizes. Terms and prices are obtainable from the makers.

Medium and Stiff Sulphanilamide Pastes.—Two sulphanilamide pastes, both containing cod liver oil, one of medium consistency (aqueous) and the other stiff (not containing water), have been issued under the names sulphonamide-*P*, B.D.H. paste (medium) and sulphonamide-*P*, B.D.H., paste (stiff), by The British Drug Houses, Ltd., London, N.1. The medium paste contains 30 per cent. of sulphonamide-*P*, B.D.H., and 49 per cent. of cod liver oil in an inert, non-irritant base. The stiff paste contains 30 per cent. of sulphonamide-*P*, B.D.H., and 60 per cent. of cod liver oil. Infected wounds are not completely sterilised by either paste; each, however, may be expected to inhibit streptococcal activity and to provide protection against acute spreading infection. The medium paste is intended principally for the treatment of burns and surface wounds. Absorption of the sulphonamide from this paste proceeds only slightly more slowly than when dry sulphonamide-powder is applied to the wound. The stiff paste has been formulated for use on gauze for the packing of deep wounds. Absorption from a deep wound is more rapid than from a surface lesion, and this paste provides an effective, but not excessive, concentration of sulphonamide-*P* in a wound when the paste is used on gauze as a packing. Both pastes are issued in containers of 4 oz.

Proprietary Articles Trade Association

J. WATERS & SONS, LTD., 4 Winthrop Street, Cork, have been elected to membership of the wholesale section.

Alterations to Protected List.—*J. T. Davenport, Ltd.* The following standard wholesale prices take effect to retailers on May 1: *Mr. J. Collis Browne's* chlorodyne, 1s. 3d., 1s. 6d. doz., tax 1s. 11d. doz., inclusive retail price, 1s. 5d.; 3s., 28s. doz., tax 8d. doz., i.r.p. 3s. 5d. Net below £1 worth. Less 5 per cent. on orders £1 to £5. Less 7½ per cent. on orders £5 and upwards.

Thomas Guest & Co., Ltd. Sure Shield quit laxatives, 9½d., 5s. 6d. doz., tax 11d. doz., i.r.p. 10½d. 1s. 3d. size temporarily withdrawn.

Herts Pharmaceuticals, Ltd. Purchase tax on following articles is now 66⅔ per cent: Nivea Creme; Nivea skin oil. Prices on application.

Hirst, Brooke & Hirst, Ltd. White Bear brand cod liver oil and cod liver oil emulsion, 4-oz. 1s. 6d., 13s. 6d. doz.; 8-oz., 1s. 6d., 22s. 6d. doz.; 12-oz., 3s. 6d., 1s. 6d. doz.; 16-oz., 4s. 6d., 40s. 6d. doz.; 20-oz., 5s. 6d., 49s. 6d. doz.

Riddell Products, Ltd. Spasmopurin suppositories, box of 12, 10s. 6d., 94s. 6d., tax 6s. doz., i.r.p. 11s. 10d.

Deletions.—*Greenosan, Ltd.* Greenosan tablets; laxative Greenosan tablets; Cee-min tablets.

Optabs, Ltd. Optabs eye-lotion tablets.

White's Laboratories, Ltd. Feenamint, Bergum brand aspirin, White's C.L.O. concentrated liquid.

INSURANCE ACT DISPENSING

Herefordshire.—Prescriptions dispensed the County Insurance Committee's area the fourth quarter of 1941 numbered 885, the total prescription cost being 288. The average total cost per insured person was 10·5 pence, the area being fourth order of high cost of prescribing.

Scotland.—A comparative statement issued recently by the Drug Accounts Committee (Scotland) gives the number and value of prescription forms dealt with on behalf of Insurance Committees in 1941 and 1940. The following figures for fifty-four Insurance Committees in Scotland (additional forms for insulin) are taken from the statement:—

1941		1940	
Number of forms	Value	Number of forms	Value
8,46,081	£206,424	3,131,869	£215,064
16,584	£14,026	16,099	£11,018

PERSONALITIES

MR. EDGAR BERRY, M.Sc., Ph.C., A.I.C., has been appointed general manager of *W. Mather, Ltd.*, Manchester. He joined the firm twenty-three years ago, and has been a director since 1928. Mr. Berry served his apprenticeship at *Mottersheads*, Manchester, and has been connected with the local Pharmaceutical Association since 1908. He studied for his degree at Victoria University, and subsequently took up a position at *Evans Biological Laboratories*, Runcorn. Mr. Berry is president of Manchester Pharmaceutical Association.



Mr. Edgar Berry

MR. HUGH N. LINSTEAD, O.B.E., Ph.C., barrister-at-law (secretary and registrar of the Pharmaceutical Society of Great Britain), has been adopted by the executive of the Putney Conservative Association as National Conservative candidate in a forthcoming by-election in the division. He will be opposed by Captain Bernard Acworth, D.S.O., independent. The date of the poll has not yet been fixed.

MR. HENRY I. WILLIAMS, 13 Heath Park Avenue, Halifax, has retired from business after being manager of the Halifax branch of *Boots, Ltd.*, since 1929. A native of Bangor, Mr. Williams qualified in 1905.

MISS MARGARET CLARK, daughter of Mr. C. E. Clark, director of *Hirst, Brooke & Hirst, Ltd.*, manufacturing chemists, Leeds, has obtained the diploma in dental surgery at the University of Leeds.

DEATHS

BLAIR.—At 10 Baird Grove, Edinburgh, on April 19, Mr. Henry William Blair, M.P.S., 93 Dalry Road. Mr. Blair qualified in 1916.

GRAY.—Recently, Mr. Herbert Gray, M.P.S., Ainsworth Avenue, Ovingdean, Brighton. Mr. Gray passed the Minor examination in 1896.

YOUNG.—Recently, Mr. Charles Edward Young, M.P.S., 157 Great Homer Street, Liverpool. Mr. Young passed the Minor examination in 1910.

THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

RETAILER — WHOLESALER — MANUFACTURER

circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades and Industries in Great Britain, Eire, the British Empire, and foreign countries.

Official organ of The Pharmaceutical Society of England, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire

DL. CXXXVII APRIL 25, 1942 NO. 3246

the fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

The Budget

ALTHOUGH the Budget introduced into Parliament last week is the most severe ever experienced as regards the total amount of taxation to be enforced in one year, there is singularly little in the Chancellor's statement that calls for trade comment. No new forms of taxation were proposed, but substantially more revenue is to be raised by means of increasing indirect taxes, the leading sources to be tapped being, as of old, beer, spirits, wines and tobacco. Amusements of all kinds will contribute a double quota in future, and luxury goods liable to purchase tax have been saddled with a similar impost. The rates of income tax, and of E.P.T. and D.C., continue unchanged.

Post-war Credits

The payers of income tax, having successfully carried the burden of 10s. in the £ during the past year, have been given a pat on the back and told the rate is not to be further increased this year and that, all goes well, they will at some future date get some of their war-time payments funded in the form of post-war credits.

Prior to the war, there were less than one million wage-earning payers of income tax; in the current year there will, it is estimated, be five million, five hundred thousand. During this time the income from this source has risen from £2,500,000 to £125,000,000. Certain minor adjustments were notified in the minimum earnings on which this tax is to be levied, and the personal allowances for married women wage-earners is to be raised from £45 to £80; the latter concession will cost twenty-five million in the full year.

Cost of Living

In pointing out that the cost of living (as assessed by the Board of Trade) had actually decreased from 23 per cent. above the level before the war in April, 1941, to 18 per cent. today, the Chancellor told the House that last year the cost of subsidies paid by the Government, chiefly in respect of foodstuffs, was £125,000,000. While we are satisfied the Board of Trade figures on "cost of living" are based more on theory than practice, there is no doubt that the methods adopted by the Government to maintain price levels of essential foodstuffs and to ensure their equitable distribution have been highly successful. If the authorities had not taken over huge stocks of these staple products, conserved them, and controlled prices and distribution to the public, the problems of feeding the nation and that of avoiding currency inflation might otherwise have become so acute as to endanger our war efforts. It is not surprising, therefore, to find that the continuance of this policy of stabilisation of prices of essentials, or, in other words, maintaining the purchasing value of our currency, is the basis of the Chancellor's Budget proposals.

Absolute essentials in foodstuffs and other bare necessities continue free of taxation, with many of them subsidised to the benefit of the consumer, while war-time "luxuries" are to be taxed almost out of existence. We are not quite sure whether the higher rates of purchase tax and the increases to be levied on beer, wines, spirits and tobacco are intended primarily to raise additional revenue or whether they are to be imposed to put a curb on spending. Possibly a little of each. Members of the Forces and

Auxiliary Services will continue to receive tobacco in all forms at pre-Budget rates. This considerable privilege will be liable to abuse. If partiality is to be shown to uniformed men and women, they should be given a limited weekly free supply of smokes and then pay the full tax on whatever else they purchase.

Purchase Tax

The doubling of the rate of purchase tax on luxury goods affects some sections of the drug and chemical trade. Despite the duty now being as high as 66½ per cent., there is not much doubt that the extremely limited quantities of these goods now allowed to be manufactured under the Limitation of Supplies Orders will continue to find a ready sale. We refer particularly to perfumes, cosmetics, toilet preparations and toilet requisites (with certain exceptions). Cameras and photographic goods are to be taxed to a similar extent. The schedules of goods on which purchase tax has thus been increased is given in Customs and Excise Notice No. 81.

It is worthy of note that this is the first war-time Budget in which industry and trade have not been called upon to shoulder some additional burden of direct taxation. The present rates of income tax, of E.P.T. and N.D.C. may explain this phenomenon. Whatever our position and circumstances, our one duty is to assist the Government by paying our taxes, living economically and cheerfully, and lending all we can.

Authority to Sell Medicines

SECTION 12 of the Pharmacy and Medicines Act, 1941 ("Restriction of sale of medicines by unauthorised persons"), is giving rise to not a little difficulty among manufacturers and retailers of recommended medicines. Retail sales of such products (plants dried, crushed or comminuted, or mixtures of them, and natural or artificial mineral waters are not regarded as recommended medicines for the purposes of the Act) are restricted to doctors, dentists, authorised sellers of poisons, and persons who have served a regular apprenticeship to an authorised seller of poisons, provided they were on August 7, 1941, proprietors of businesses comprising the retail sale of

drugs. The Pharmaceutical Society is prepared to receive from persons who claim to be included in the last-mentioned category information concerning their apprenticeship and the business they carry on, in order that it may be on record should any question be raised whether the conditions of the Section are being complied with.

All the above-mentioned persons may sell substances under a title which includes any word or words forming part of the description set out at the head of a monograph in the British Pharmacopœia or the British Pharmaceutical Codex. Persons other than those described may sell such substances under a proprietary designation and a title which includes any word or words which constitute or form part of the description set out at the head of a monograph in the B.P. or B.P.C., but subject to the following conditions:—

(1) that the substance was ordinarily being sold by retail under that title at the date of the passing of the Act, i.e. August 7, 1941, and

(2) that not more than one other substance recommended as a medicine was also being sold at that date under the same proprietary designation and any word or words forming part of a description set out at the head of a monograph in the B.P. or B.P.C.

The Pharmaceutical Society is prepared to compile a list of proprietary preparations complying with these conditions, and manufacturers of such preparations who notify the Society of the existence of such preparations may have the information recorded together with the fact that the preparation was on sale before August 7, 1941. Any one desiring to take advantage of the above proposals should communicate with the Society's Records Department, Birdsgrove House, Mayfield, nr. Ashbourne, Derbyshire.

Need for Rulings

The definition of "a substance recommended as a medicine" includes reference on the article, wrapper or container, in an placard or advertisement "in terms calculated to lead to the use of the substance for the prevention or treatment of an ailment, infirmity or injury affecting the

human body, not being terms which give a definite indication that the substance is intended to be used as, or as part of, a food or drink, and not as, or as part of, a medicine." One particular difficulty occurs out of this definition, i.e., does the indication of the dose on the label constitute a recommendation? Until there is a Court decision the question cannot be answered satisfactorily, but opinion is held in some quarters that a dose is not a recommendation. Then a further question arises: In what terms may the dose be indicated? Must the words be confined simply to such brief indication as may be given in the B.P., say, "Dose: Half to one teaspoonful," or would such a statement as: "One teaspoonful to be taken at bed-time or as required," be permitted? There is urgent need for an official ruling on this matter in view of the paper position, apart from other

difficulties which may occur if labels are wrongly printed.

Some confusion seems still to prevail regarding whether the use of a body name as a title, e.g., liver pills, brings the article within the scope of a recommended medicine, thus rendering necessary the disclosure of the formula. It will be recalled that under the now repealed Medicine Stamp Acts use of a body name *per se* did not make the preparation liable to duty. This ruling is no longer valid, and the definition in the 1941 Act referred to above is so widely drawn that the use of titles such as "back and kidney pills," "chest and lung mixture," and so forth, with or without the indication of a medicinal dose, should, in our opinion, be regarded as recommendations as a medicine, and the formula disclosed. Official ruling on this point is also badly needed.

MEDICAL ABSTRACTS

Stilbœstrol During Pregnancy.—The phenomenon was observed by Zondek and Bromberg ("Lancet," March 28, p. 381), that during pregnancy and the puerperium women can tolerate very large doses (270 to 445 mgm.) of diethylstilbœstrol dipropionate without developing side effects. The conclusion is drawn that an autoetoxication of stilbœstrol takes place during pregnancy. An investigation is being initiated into how this effect comes about.

Sterilising Paraffin Dressings.—Methods for testing dressings impregnated with greasy material are described by Savage in the "British Medical Journal" (April 11, p. 472). The water-bath method of sterilising soft paraffin dressings is pronounced ineffective. Tulle gras can be sterilised in an autoclave, provided that enough balsam of Peru is present and that the cotton is normally moist. In the final method of testing adopted, six-ounce screw-capped jars were used, and about 50 mils of light liquid paraffin was placed in each. The jars and contents were then sterilised in a hot-air oven at about 150° C. for several hours. About 25 mils of nutrient Lemco broth was added, and the whole then autoclaved at 115° C. for thirty minutes. The jars were used hot from the autoclave, and the dressings were lifted out of the melted grease by sterile forceps, drained a

few seconds, then added to the medium and incubated for at least five days at 37° C.

Dose Interval in Sulphonamide Therapy.—In order to ascertain the usefulness of sulphapyridine treatment in circumstances such as active-service conditions, in which four-hourly doses were impossible, Andrew ("British Medical Journal," March 28, p. 419) made repeated estimations of the concentration of the drug in the blood of patients receiving the same total in different individual doses. The amount given was in each case 9 gm. on the first day, 6 gm. on the second, and 4 gm. on the third: in three cases the whole was given in one daily dose, in three others divided into two twelve-hourly doses, and in a further three into six four-hourly doses. There was some individual variation in the blood levels attained regardless of the system of dosage. The blood level was naturally steadier with more frequent dosage, but the extent of the fall at the end of twenty-four hours when only one dose was given daily was only to about two-thirds of the maximum. Thus even a single large daily dose maintains a concentration in the body which should control infection. The simplified system has also the advantages that the large initial dose causes a rapid rise in blood concentration to a high level, thus securing maximum effect at the earliest stage; the patient need not be awakened at night.

NUTRITION IN WAR-TIME

by Frank Wokes, Ph.D., B.Sc., F.I.C., Ph.C.

IV.—Protein Values

In previous articles of this series attention has been concentrated on energy values of foods, the fundamental requirement for which most food is needed. However, a small proportion of what is eaten is used not for providing energy but for body building and repair. Apart from the minerals needed for bones and certain other tissues, the growth and maintenance of the body mainly depends on a satisfactory supply of protein. Adults in whom growth has ceased can live well on a diet of which less than a tenth consists of protein, and will not suffer unduly if this proportion is temporarily still further reduced. Moreover, the old protein which has been replaced by new breaks down in the body to yield energy, so that in calculating the energy value of a normal adult diet each gram of protein consumed may be considered as providing 4.1 Calories. On the other hand, children especially, and pregnant and lactating women, are using some at least of the protein in their diet to build new materials, in contrast with the repair of old tissues. They therefore do not obtain the full quota of energy from their protein, and require a larger proportion of it in their diet. They are more rapidly affected by protein shortage, and the quality of protein is of great importance.

Biological Value of Proteins.—Proteins are complex organic nitrogenous compounds containing mainly carbon, hydrogen, oxygen and nitrogen with small amounts of sulphur, phosphorus and other elements. The nitrogen is present in amino-acids, which are joined in characteristic patterns to form very large protein molecules. There are at least twenty-three different amino-acids from which an almost infinite variety of proteins can be

formed. Different tissues contain different proteins. For the building and repair of body proteins as a whole sufficient quantities of all the amino-acids must be supplied. Some of the simpler of these amino-acids can apparently be formed in the body from other amino-acids. Other more complex amino-acids, especially those containing aromatic nuclei, cannot thus be formed, and must be provided in the diet. Hence it is necessary when assessing the value of proteins to take into consideration their content of these essential amino-acids. The accompanying table shows the approximate proportions of essential amino-acids in a number of common food proteins. It will be seen that proteins of animal origin are superior in this respect to individual vegetable proteins, and are therefore termed first class protein. In the present shortage of the proteins of meat and fish it is obviously important to ensure that the proteins of dairy produce go mainly to children and pregnant and lactating women.

The content of essential amino-acids in a protein is responsible for its biological value. This may be determined by estimating the amino-acids chemically, or biologically by feeding the protein to young animals (e.g. rats) and observing the effect on the growth. The biological method is more fundamental but much more tedious and much less accurate.

Protein Values of Foods.—Whilst an adequate supply of each of the essential amino-acids is of fundamental importance, especially in the diet of children and of

PERCENTAGE OF ESSENTIAL AMINO-ACIDS IN PROTEINS

Protein	Cystine	Histi-dine	Lysine	Trypto-phan	Tyro-sine	Phenyl-alanine
Gladiin (Wheat) ..	0.5	0.6	3.2	1.0	1.2	2.4
Glutenin (Wheat) ..	0.02	1.8	4.7	—	4.3	2.0
Zein (Maize) ..	?	0.43	—	—	3.6	6.6
Hordein (Barley) ..	?	1.3	—	trace	1.7	5.0
Legumin (Peas) ..	—	2.4	5.0	—	1.6	3.8
Amandin (Almonds) ..	—	1.6	0.7	—	1.1	2.5
Excelsin (Brazil nuts) ..	—	1.5	1.6	trace	3.0	3.6
Casein (Milk) ..	—	2.5	6.0	1.7	4.5	3.2
Ovalbumen (Egg white) ..	0.4	1.4	5.0	—	3.2	5.2
Vitellin (Egg Yolk) ..	—	1.2	5.4	—	3.4	2.6
Hæmoglobin (Red blood corpuscles) ..	0.3	7.6	8.1	—	1.3	4.2
Muscle protein ..	—	2.0	5.8	trace	1.9	4.9
Gelatin (from bones) ..	—	0.4	2.8	—	—	0.4

women bearing children, a minimum total quantity of the other amino-acids is also needed to meet the total protein requirements. We may therefore measure the protein value of a food (a) from its content of essential amino-acids, (b) from its total protein content. The first method is the more important but also much more difficult. Values have been calculated for some common foods by this first method, using as a basis the proportion of each essential amino-acid as compared with that in human flesh which the proteins are employed to build or repair. The results are given below, followed by those based on total protein content, both being stated as a percentage of the corresponding value of beefsteak, and all based on the content of solid matter. Egg yolk 342, 530; egg white 300, 300; milk 325, 250; beefsteak 100, 100; peas 100, 20; brazil nuts 68, 25; wholemeal bread 63, 84; barley 30, 5. Dairy produce obviously has by far the highest protein values, eggs being superior to milk. Peas, beans and nuts are probably almost as equal to meat, calculated on the dry basis. If allowance were made for the wastage in meat, and values calculated on the condition as purchased they would be superior to meat. Bread is inferior in protein value to meat, although wheat proteins provide valuable amounts of the essential amino-acids cystine and tryptophan. Wheat is superior to barley, which justifies the preference given to wheat for direct human consumption, in contrast with the allotment of barley for feeding cattle and poultry and for manufacture of malt extract.

Protein and Work.—The opinion has long been held that when hard work or strenuous exercise is to be undertaken a diet containing a high proportion of protein is advantageous. Athletes in training have often eaten large quantities of meat, and the active service ration of the British soldier even in hot climates has been based mainly on bully beef. On the other hand, there has been a marked tendency in recent years amongst those organising expeditions or long distance flights in which hard work and difficult conditions had to be endured to replace more and more of the bully beef by other foods which gave greater variety to the diet as well as proving better sources of vitamins and other essential factors. In view of the high protein and other food value of dairy produce it is not surprising to find that dried eggs and milk now form the basis of certain emergency rations.

Turning to the present-day diet of the nation the shortage of meat, fish and dairy produce is depriving adults of about a third of the protein which they normally consume in peace-time. A little of this lost protein may be made good by a larger consumption of potatoes, peas and beans (haricot, butter or soya) but apart from the pulses, vegetables are not a good source of protein. The position therefore is that men and women are expected to work harder than ever and show greater endurance to hardships on a diet containing less protein than usual. Obviously this is not possible if a high protein diet is really essential for persons undertaking hard work.

Protein and Exercise.—Eight years ago important experiments were carried out in the Institute of Physiology at Glasgow University on the value of protein in strenuous exercise. C. F. Davey, a well known racing cyclist, pedalled a stationary bicycle for about eight hours a day against an electrical resistance. The amount of work done was recorded on an ergometer, and was similar to that of soldiers on active service. The energy values of the five different diets tested ranged from 4,000–5,000 Calories daily. The protein content of the diets ranged from $1\frac{1}{2}$ –8 oz. daily, as compared with 3–5 oz. daily in the average adult British pre-war diet. The efficiency of each diet was measured by the ratio between its energy value and the amount of work done. On the lowest protein diet, in which potatoes formed the chief source of protein, the amount of work done was only about 10 per cent. below the maximum. In another experiment in which an intake of about 4 oz. of protein daily was obtained by eating large amounts of wholemeal meal the amount of work done was only about 6 per cent. below the maximum. The greatest efficiency was obtained with a daily protein intake of $7\frac{1}{2}$ to 8 oz. derived mainly from dairy produce. None of the diets contained any meat or fish. Each diet was eaten for several days before the experiment, and the results could therefore be fairly attributed to the diet. The results show that hard work can be successfully undertaken on diets containing much smaller amounts of protein than was usual in pre-war days, and that the presence of meat or fish is not essential. They are supported by longer experiments carried out on a number of persons by Hindhede in Denmark, and have recently been confirmed by unpublished experiments in this country.

PURCHASE TAX ON LABELS

THE new ruling of the Commissioners of Customs and Excise (C. & D., April 18, p. 428) that certain labels and similar articles in Class 21 are to be subject to 33½ per cent. purchase tax may lead to some revision in the printing of chemists'

AROMATIC
SPIRIT OF
SAL VOLATILE
BRITISH PHARMACOPEIA
Dose.—From thirty drops to a small tea-spoonful in
a wine-glass of cold water.

F. R. STENT,
DISPENSING CHEMIST.
8, ARGYLE STREET, BATH.
TELEPHONE NO. 4429.


SHAKE THE BOTTLE
The Mixture.
*One tablespoonful to be
taken three times a day
in water after food.*

A. H. HALE, M.P.S., F.R.O.A.
DISPENSING CHEMIST,
8, ARGYLE STREET, BATH.
TELEPHONE NO. 4429.

PLEASE DELIVER IMMEDIATELY

F. R. STENT,
DISPENSING CHEMIST.
8, ARGYLE STREET, BATH.
TELEPHONE NO. 4429.

MEDICINES—WITH CARE.



FROM **F. R. STENT, PHARMACIST,**
(A. H. HALE, M.P.S., F.R.O.A., PROPRIETOR.)
Tel. 4429. **8, ARGYLE STREET, BATH.**

labels. The three classes of labels now exempt from tax are (a) those used for indicating a branded article; (b) those attached by a manufacturer or merchant (which term is apparently intended to be treated in its widest sense, and thus includes retailer) to indicate, among other matters, contents or instructions; (c) adhesive labels for correspondence or goods solely for advertisement purposes. All these labels are exempt provided they are supplied fully printed. If any of them requires to be completed in manuscript, e.g. the "mixture" label shown in the accompanying illustration, it becomes taxable. This example is representative of many in general use—with a space below the directions for inclusion of the name of the person for whom the medicine is intended and the reference number in the prescription book. On this example tax would be payable. Supposing, however, the name and address of the chemist had been printed close up to the directions, without

space for the patient's name, as would probably be the case with an own-name "neuralgia mixture" label, then the label would escape duty. Whether it is worth while making an alteration in style when ordering labels of this type is open to question. The indication of the name and prescription on the container are necessary for obvious reasons, so that, if they are marked on a blank slip and attached separately, duty is payable on the slip label, though a slightly less amount on account of lower cost of such labels. Against this comparatively small saving must be offset the disadvantages.

Labels of the stock type, such as the one for sal volatile shown above, are exempt from tax owing to the fact that they are already complete. Labels and tags, printed or not, intended for use as addressing labels or attaching to correspondence or invoices, are liable, as are price, size and other marking labels or tags whether partially or fully printed.

ZANZIBAR CLOVE EXPORTS

The report of the Zanzibar Clove Growers' Association for the quarter ended December 31, 1941, shows that supplies and exports during the quarter were:—

	SUPPLIES	EXPORTS
Zanzibar ..	3,200,492 lb.	To all destinations,
Pemba ..	12,793,208 lb.	10,722,085 lb.

Of the total supplies, 7,120,386 lb. passed through the Zanzibar market; 202,447 lb. passed through the Association's depot; and 8,670,867 lb. was offered to and purchased by the Association. Export destinations and quantities were:—

	Bales	lb.
Dutch East Indies ..	30,000	4,200,000
Bombay and Indian ports ..	29,201	4,088,205
America, North and South ..	11,251	1,575,100
United Kingdom and Continent ..	4,891	684,780
All other destinations ..	1,242	174,000

In terms of standard bales (140 lb. net) supplies were 114,241 and exports 76,585 bales. Of the total exports the Association supplied 5,370,055 lb.

Stems.—The markets for oil were without feature during the quarter under review. Demand was maintained, and there was no indication of any falling off in buyers' interest. Supplies of stems during the quarter were 2,765,165 lb.; the distillery absorbed 1,785,330 lb. Oil exports totalled 115,844 lb.

TRADE REPORT

Not quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency

28 Essex Street, W.C.2, April 22

Last week's announcement from the Ministry of Supply (C. & D., April 18, 1944) that a limited quantity of crude drugs imported from the United States under the Lease-Lend arrangement would shortly be available for distribution has been well received, and no doubt consumers will be glad to take advantage of this welcome source of supply. The release of stocks of CASCARA SAGRADA, in particular, has eased a situation that was causing some anxiety. Consumers should note that applications for supplies of these commodities should be made through the usual channels. An announcement from the Import Licensing Department of the Board of Trade, particulars of which will be found in the report on BUCHU below, states that the Department is now prepared to consider applications for the importation of leaves from South Africa. Business on the London drug market has remained quiet during the last week, although the consuming demand has been fairly steady, and merchants report a satisfactory volume of trade. There is little of interest to report in the PHARMACEUTICAL CHEMICALS section. Business has been rather slow and sales have been small. Makers' prices are unchanged.

Crude Drugs

The markets in drugs have been generally quiet, with values of most items fully maintained. Interest in Japanese AGAR is negligible, and business is confined to sales of odd bales. No spot stocks of CASCARA ALOES appear to have reached the market. BALSAM OF TOLU continues in fair demand, but any remaining supplies would be at higher rates. A routine trade continues in CAMPHOR at the prices mentioned last week. No further advances are noted in CHILLIES or CLOVES. The position of ERIS ROOT is unchanged, and some holders appear to be still awaiting permission to sell. Some inquiry is noted for ERGOT, but business is unimportant. MATTO GROSSO and ECACUANHA is rather firmer for shipment. Some Russian LIQUORICE ROOT is still available to buyers approved by the Ministry of Supply. A fair business is reported in Chinese MENTHOL. NUX VOMICA has been in fair inquiry. A further slight

increase is noted in the spot price of PIMENTO, but shipment is unchanged. Slightly lower rates are quoted for some medium grades of TRAGACANTH.

Essential Oils

There has been little demand for essential oils during the week, and practically all prices are unchanged. A fair inquiry is noted for ANISE (STAR); prices are inclined to be easier. Supplies of BAY are restricted, but prices are unaltered. CAJUPUT remains firm. There appear to be no spot stocks of CASSIA to meet the continued demand. No improvement is noted in the supply position of CLOVE. Spot values of EUCALYPTUS are maintained. Chinese PEPPERMINT has been in good demand. A few price changes, all in an upward direction, have occurred in SYNTHETICS. Supplies of these products remain severely restricted.

Exchange Rates on London

The following were Bank of England fixed rates at the opening on April 22: New York, 4.03 dollars; Montreal, 4.45 dollars; Lisbon, 100 escudos; Stockholm, 16.90 kroner; Zurich, 17.35 francs; Buenos Aires, 17.04½ paper pesos; Netherlands West Indies, 7.60 florins. The official Madrid rate remains at 40.50 and the free rate at 46.55 pesetas. Chinese national dollar is at 21½d.

Pharmaceutical Chemicals

ACETANILIDE.—Prices are unaltered, but the supply position has not improved. B.P.C. crystals and powder, from 2s. 4d. to 2s. 6d. per lb., according to quantity.

ALLOBARBITONE.—English makers' price remains in the region of 60s. per lb.

AMIDOPYRINE.—About 45s. per lb. would be the present price for any small available supplies.

AMPHETAMINE.—Supplies are available from British makers at about 150s. per lb.

ATROPINE.—Makers' prices are at the following levels: ALKALOID, 28s. per oz., 4 oz., 28s. 6d., and 25 oz., 28s. per oz. SULPHATE, 23s. per oz.; 4 oz., 22s. 6d., and 25 oz., 22s. per oz. Bottles, under 5-gm. or ¼-oz., corked, 3d.; stoppered, 5d.; 5-gm. to 25-gm. or ¼-oz., corked, 3½d.; stoppered, 6d.; 25-gm. or 1-oz., corked, 3½d.; stoppered, 7½d.; 50-gm. or 2-oz., corked, 4d.; stoppered, 9d. each; 100-gm. and over, included in price; tubes, per 100, 5-gr., 10s. 6d.; 10-gr., 12s. 3d.; 15-gr., 14s.

BENZALDEHYDE.—In restricted supply, with makers' prices at between 5s. and 5s. 6d. per lb.

BENZOIC ACID.—Makers state that fair supplies are available for therapeutic purposes. Price would be between 2s. 6d. and 3s. per lb. as to quantity.

BENZYL BENZOATE.—In fair supply for medicinal use. Prices are unchanged at about 4s. 6d. to 5s. per lb.

BISMUTH SALTS.—Details of makers' current scales of prices were given last week (p. 448).

BORAX.—Makers' prices per ton are as follows: B.P., granulated, £39 10s.; crystals, £40 10s.; and powder, £41. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots and upwards. Commercial quality, £8 per ton less.

BORIC ACID.—B.P. grades are priced as follows: Granulated, £60 15s. per ton; crystals, £61 15s.; and powder, £62 15s. One-ton lots and upwards delivered carriage paid in Great Britain, packed in one-cwt. bags. Commercial qualities are at £8 per ton below above prices.

COCAINE.—Details of British makers' current wholesale rates were given last week (p. 448).

CODEINE.—Makers' prices are unaltered: ALKALOID— $\frac{1}{2}$ oz., 43s. 3d. per oz.; 1 oz., 40s. 9d.; 2 oz., 39s. 3d.; 3 oz., 38s. 6d.; 4 oz., 38s. 3d. PHOSPHATE— $\frac{1}{2}$ oz., 36s. 3d.; 1 oz., 33s. 9d.; 2 oz., 32s. 3d.; 3 oz., 31s. 6d.; 4 oz., 31s. 3d.

GLYCERIN.—Current rates for small quantities are as follows: 1-cwt. drum, 86s. per cwt.; 56-lb. tin, 94s.; 28-lb. tin, 97s.; 14-lb. tin, 100s. per cwt. All prices are subject to discount of $2\frac{1}{2}$ per cent. for cash in twenty-eight days.

IODIDES.—Steady at makers' prices: POTASSIUM IODIDE, B.P.—112 lb., 8s. 8d.; 28 lb., 9s. 2d.; 14 lb., 9s. 8d.; 7 lb., 11s.; 4 lb., 11s. 6d.; smaller quantities, 12s. per lb. SODIUM IODIDE, B.P.—28 lb., 9s. 6d.; 14 lb., 10s.; 7 lb., 11s. 7d.; 4 lb., 12s. 3d.; smaller quantities, 13s. 1d. per lb. IODOFORM, B.P.—28 lb., 12s. 1d.; 14 lb., 12s. 7d.; 7 lb., 14s. 9d.; 4 lb., 15s. 7d.; smaller quantities, 16s. 5d. per lb.; crystals, 2s. per lb. extra. IODIDE RESUBLIMED, B.P.—112 lb., 9s. 11d.; 28 lb., 10s. 5d.; 14 lb., 10s. 11d.; 7 lb., 12s. 6d.; 4 lb., 13s. 2d.; smaller quantities, 13s. 11d. per lb.

MERCURIALS.—Details of official prices for quantities up to two cwt. were given last week (p. 448).

MERCURY IODIDES.—No changes in prices have been notified: RED, less than 7 lb., 17s. per lb.; not less than 7 lb., 16s. 8d.; not less than 14 lb., 16s. 2d. GREEN, less than 7 lb., 19s.; not less than 7 lb., 18s. 8d.; not less than 14 lb., 18s. 2d. YELLOW, less than 7 lb., 20s. 8d.; not less than 7 lb., 20s. 4d.; not less than 14 lb., 19s. 10d. per lb. net, carriage paid.

METHYL SALICYLATE.—Makers' prices are unchanged: Five cwt., 1s. 10d. per lb.; one cwt., 1s. 10 $\frac{1}{2}$ d.; smaller lots, in bottles, 2s. 0 $\frac{1}{2}$ d. per lb.

PHENAZONE.—Any available small supplies would be worth about 19s. per lb.

PHENOLPHTHALEIN.—Makers' quotations are unchanged: Less than 7 lb., 4s. 3d. per lb.; 7 lb., 4s. 2d.; 14 lb., 4s. 1d.; 28 lb., 4s.; 1 cwt., 3s. 11d.

PILOCARPINE.—Makers' prices are unchanged; details were given last week (p. 448).

SALICYLIC ACID (B.P.).—Makers' prices are steady as quoted. For details, see *C. & D.*, April 18, p. 449.

SULPHONAL.—Any available small supplies would fetch about 47s. 6d. per lb.

TANNIC ACID.—About 7s. to 7s. 6d. per lb. would be the present value of any available small supplies.

VANILLIN.—No changes have been notified in makers' prices: Ex clove oil or guaiacol, five cwt., 22s. 6d. per lb.; one cwt., 22s. 9d.; 56 lb., 23s.; less than 56 lb., 23s. 3d. carriage paid in U.K. Tins in cases returnable.

Crude Drugs

ACONITE ROOT.—Any small supplies that might be available on spot would be worth about 2s. per lb.

AGAR.—Little interest is being taken in this item. A bale or two of unrestricted Kobe No. 1 occasionally goes into consumption at prices ranging from 60s. to 75s. per lb. Small supplies of bacteriological are offered at about 25s. to 30s. per lb., but little business is passing.

ALOES.—Any small spot supplies of Cape would be worth approximately 55s. to 57s. 6d. per cwt.; forward, about 45s. per cwt., c.i.f. The forward price of Curaçao is about 450s. per cwt., but no spot stocks appear to be available.

ANTIMONY.—Prices are at the levels recorded last week. English minimum 99 per cent. regulus, £120 per ton, delivered; 70 per cent. for home trade, £100 per ton, delivered.

ARECA NUT.—About 7 $\frac{1}{2}$ d. per lb. would be wanted for any remaining small spot supplies.

BALSAMS.—Demand for *Tolu* continues fair, but it is doubtful if any remains at 9s. 3d. per lb., 9s. 6d. per lb. now being asked. Other varieties are unchanged, as follows: *Copaiba*, B.P., 9s. per lb., nominal; *Peru*, about 7s. 9d. per lb.; *Canada*, about 7s. 6d. per lb., ex store U.K., duty paid.

BENZOIN.—In fairly active demand. Spot price of Sumatra direct to consumers would be about £12 to £14 per cwt., according to quality. The price of free almondy would be in the region of £30 per cwt.

BISMUTH METAL.—Current price for high-grade metal remains at 6s. 3d. per lb. for minimum 5-cwt. lots.

BUCHU.—The Import Licensing Department of the Board of Trade announces that the Board is now prepared to consider applications to import buchu leaves from South Africa. Licences will be granted on the basis of the value of the importer's imports of these goods from

South Africa during the year ended August 31, 1939. Importers who have not already received notice to this effect and who desire licences would apply to the Import Licensing Department, 1-6 Tavistock Square, London, W.C.1, on forms on which to submit particulars of their past trade in buchu leaves and for forms of application for licences.

CALUMBA ROOT.—Dealers' spot price for dry available supplies of good washed root would be in the region of 160s. per cwt.

CAMPHOR.—Routine business, with current prices to approved buyers as follows: Chinese P. powder, about 11s. 6d. per lb.; Chinese cake (92 per cent.), about 10s. per lb.; Chinese slabs, about 11s. 6d. per lb. Restricted quantities of English synthetic, B.P., are understood to be available to approved consumers at 7s. per lb. As noted last week, the manufacture of camphor blocks by the English makers has ceased at the request of the Ministry of Supply, the Ministry considering that this form of camphor is non-essential.

CANTHARIDES.—Spot supplies appear to be exhausted, and no quotations are available.

CARDAMOMS.—Quiet. Aleppy greens, spot, about 5s. 6d. to 5s. 9d. per lb.; shipment, 4½d., c.i.f. Aleppy seed, spot, about 5s. 9d.; shipment, 5s. 3d., c.i.f. Split seed, spot, about 9d. per lb.

CASCARA SAGRADA.—The Ministry of Supply announced last week (p. 444) that limited supplies imported from the United States under the Lease-Lend arrangement will be available for distribution. Price to users will be 5s. per cwt., ex store.

CASCARILLA.—No change has been noted in dealers' prices for quills at about 3s. 3d. per lb. and for siftings at about 2s. 6d. per lb.

CHILLIES.—Business has been of small dimensions and prices show no further advances. Zibar, spot, 180s. per cwt.; Mombasa, same at the same figure; Sierra Leone and Zanzibar, both 175s. per cwt., duty paid.

CHILLOES.—Zanzibar on spot quoted at 2s. 4d. per lb.; sellers; Madagascar, unquoted.

CHOCINEAL.—Any available spot supplies of this would be worth about 5s. per lb.

CHOLCHICUM.—Indian, in small supply on spot, approximately 2s. 9d. to 3s. per lb.

CHOLOCYNTH.—Spot supplies appear to be exhausted and no quotations are available.

CORONDELION ROOT.—Indian root is quoted on spot by dealers at around 125s. to 135s. per cwt., according to quantity.

CORRIS ROOT.—The position is unchanged.

CORONDELION LEAVES.—Portuguese leaves are available on spot at approximately 115s. per cwt., ex store.

CORONDELION'S BLOOD.—Fair re-boiled, if available on spot, would be worth approximately 15s. per cwt.

CORONDELION.—In some inquiry, but business generally quiet. Spot, unchanged at about

7s. 6d. per lb.; shipment, in the region of 7s. to 7s. 1½d. per lb., c.i.f.

GINGER.—Quotations nominal, pending the fixing of maximum prices by the Ministry of Food. West African, spot, 185s. per cwt.; Cochinchina, unwashed, spot, 182s. 6d. quoted.

GRAINS OF PARADISE.—Small supplies are obtainable from spot holders at about 1s. 10d. per lb. Current business is small.

GUM ACACIA.—Unrestricted Kordofan cleaned sorts is quoted on spot at about 230s. per cwt., and restricted at about 195s.; shipment is unchanged at 70s. per cwt., nominal, c.i.f.

HYDRASTIS.—As announced last week (p. 444) the price to users for limited quantities imported from the United States under the Lease-Lend arrangement will be 22s. 6d. per lb., ex store, repacking extra.

IPECACUANHA.—Firm, but without important price changes. Matto Grosso, spot, about 18s. to 18s. 3d. per lb.; shipment, rather firmer at about 17s. per lb., c.i.f. Minas, spot, B.P., about 12s. 3d. per lb.; not quite B.P., about 11s. 9d.; shipment, around 11s. 3d. to 11s. 6d. per lb., c.i.f. Current prices for Ext. IPECAC. LIG., in Winchester quarts, are as follows: B.P., 1932, under three, 26s. per lb.; three and under six, 25s. 6d.; six and under twelve, 25s.; twelve and over, 24s. 6d. per lb. B.P., 1914, under three, 24s. per lb.; three and under six, 23s. 6d.; six and under twelve, 23s.; twelve and over, 22s. 6d. per lb., all prices net.

JABORANDI.—The spot value of fair quantities would be in the region of 55s. to 60s. per cwt., but higher prices would be wanted for smaller lots.

LEPTANDRA ROOT.—The price to users of small supplies imported from the United States under the Lease-Lend arrangement will be 1s. 10d. per lb., ex store (C. & D., April 18, p. 444).

LIGUORICE ROOT.—Some Russian root is still available on spot to approved buyers at £60 per ton.

LOBELIA HERB.—Limited quantities, imported from the United States under the Lease-Lend arrangement, will be available for distribution. Price to users will be 2s. 8d. per lb., ex store (C. & D., April 18, p. 444).

MENTHOL.—More inquiry has been received this week, and a fair business is reported done in Chinese at 7s. per lb.; there may be a little more available at this price, but 72s. 6d. is generally asked. For any Japanese left on spot about 75s. would be wanted.

NUTMEGS.—West Indian, sound unassorted, spot, 2s. 2d. per lb.; wormy and broken, 1s. 10d.; 90's, 2s. 3d.; 80's, 2s. 7d., nominal, Eastern browns, 80's, nominal.

NUX VOMICA.—Inquiry has been better. Cochinchina, washed and garbled, about 37s. 6d. per cwt. on spot; some afloat business is reported done at 32s. 6d. per cwt., c.i.f.

ORANGE PEEL.—Small supplies, if available on spot, would be worth about 3s. to 3s. 6d. per lb., according to grade and holder.

PAPAIN.—Scarce and nominal at about 17s. per lb. on spot.

PEPPERS.—The maximum spot price in bond of unpicked whole black Lampong is 5d. per lb., and of whole white Muntok 8d. per lb. Particulars of an Order amending the Pepper (Control and Maximum Prices) Order, 1941, were given in the *C. & D.*, April 4, p. 398.

PIMENTO.—A further slight increase in spot price to 2s. 2d. per lb., sellers, is recorded; shipment, April–May, remains at 155s. per cwt., nominal, c.i.f.

PODOPHYLLUM RESIN.—Imported under the Lease-Lend arrangement. Limited supplies will be available to users at 27s. 6d. per lb., ex store (*C. & D.*, April 18, p. 444).

QUASSIA CHIPS.—Spot supplies appear to be exhausted, but some replenishments are expected.

RHUBARB.—Some inquiry; values unchanged. Rough-round, spot, about 7s. 3d. to 7s. 9d. per lb. Small supplies of Shensi might be obtainable on spot at around 9s. to 9s. 6d. per lb.

SAPONIN.—Quotations for May–June shipment remain at 16s. per kilo, c.i.f.

SARSAPARILLA.—Recent arrivals of native reddish are reported offered at about 2s. 9d. to 3s. per lb., according to quantity.

SEEDS.—**ANISEED.**—Spot, nominal at 165s. **CANARY.**—Spot, no stock available. **CARAWAY.**—Dutch, spot, nominal at 365s. **CORIANDER.**—Spot, Indian, sold at 80s., duty free, but no further stocks available; English, quoted at 210s. **CUMIN.**—Malta, spot, 155s., duty free; Indian, 155s., duty free. **DILL.**—Spot, not quoted. **FENNEL.**—Indian, spot, 92s. 6d., duty free. **FENUGREEK.**—Spot, nothing offering at present. **MUSTARD.**—English, 115s. to 130s., according to quality.

SENEGA.—In poor demand. Any small spot supplies would be valued at around 7s. 3d. to 7s. 6d. per lb.

SENNA.—Alexandrian medium hand-picked pods, about 4s. 6d. to 5s. 6d. per lb.; Alexandrian leaves, siftings, about 1s. 3d. per lb.; Tinnevely pods, 1s. 3d. to 1s. 5d. per lb. for selected and about 8s. per lb. for f.a.q.

SHELLAC.—Business slow, with values unchanged. Standard TN orange, spot, 197s. 6d. per cwt., value; shipment, unquoted. Pure button, unquoted; fine orange, 240s. to 290s. quoted.

SLIPPERY ELM BARK.—The price to users of limited quantities imported from the United States under the Lease-Lend arrangement will be 1s. 6d. per lb., ex store (*C. & D.*, April 18, p. 444).

SQUILL.—In good supply at unchanged prices. Spot, from 75s. to 90s. per cwt., according to colour.

STRAMONIUM LEAVES.—Dealers' spot quotations for Indian leaves are steady at approximately 110s. per cwt.

TONKA BEANS.—Not a lot available. Spot price would be in the region of 6s. 3d. to 6s. 6d. per lb.

TRAGACANTH.—The principal medium grades are at slightly lower values, as follows: No. 1, white, £145; No. 2, white, £130; No. 3, white, £105; pale leaf, £98; amber leaf, £72; red leaf, from £40; woody and hoggy, from £25, ex store.

TURMERIC.—Madras finger, spot, sound quality, 72s. 6d.; wormy, 70s.

VALERIAN ROOT.—Indian root continues to be offered by dealers on spot at about 115s. per cwt., ex store.

WAXES.—**BEES'.**—Nominal on spot at 295s. per cwt.; in bond, no quotations; Dar-es-Salaam, no quotations; Japanese, 340s.

CARNAUBA.—Fatty grey, 540s.; chalky grey, 520s.; Primeira, 620s. per cwt.

Essential and Expressed Oils

ANISE (STAR).—A fair inquiry has been received. Odd drums are reported available on spot at about 50s. per lb.; tins in cases, about 51s. to 52s.

BAY.—The spot value of any available supplies would be in the region of 10s. to 12s. per lb.

BERGAMOT.—The price of any remaining supplies would be a matter for negotiation, around 100s. per lb. being a basis.

BOIS DE ROSE.—Higher at source. Spot price is now at about 35s. per lb., with further increases possible.

CAJUPUT.—Firm and unchanged at approximately 15s. per lb. for spot oil.

CANANGA.—Spot supplies are difficult to locate, and the price is nominal at 60s. per lb.

CASSIA.—Spot stocks are exhausted, and no quotations are available.

CEDARWOOD.—Spot, nominal at 6s. 6d. per lb.

CITRONELLA.—The spot price of Ceylon remains firm in the region of 16s. 3d. per lb. Recently quoted spot prices for Java appear to have been on the high side compared with the price of about 19s. per lb. now mentioned.

CLOVE.—No improvement is noted in the supply position. English distillers' prices are unchanged at between 15s. 6d. and 18s. per lb.

EUCALYPTUS.—Spot values are maintained at between 5s. 9d. and 6s. per lb. for 70 to 7 per cent. oil, but small quantities would be dearer.

GERANIUM.—Nominal and a matter for negotiation.

GINGERGRASS.—Obtainable on spot at about 25s. per lb.

LAVENDER.—The spot value of any good quality oil would be in the region of 85s. per lb.

LEMONGRASS.—Firm, with spot values unchanged at 18s. 6d. to 20s. per lb. according to quantity.

PALMAROSA.—Spot, about 35s. per lb. shipment, about 27s. per lb., c.i.f.

PATCHOULI.—Spot value is nominal at 70s. to 70s. per lb.

PEPPERMINT.—A good demand is noted for these, with some business reported done on spot at 77s. 6d. per lb. Supplies, however, are plentiful, and about 80s. per lb. would probably be required for remaining small lots.

PETITGRAIN.—Spot, if available, would be worth around 25s. per lb.

ROSE (OTTO).—Any available spot supplies would be worth about 300s. per oz.

SANDALWOOD.—Genuine East Indian Mysore galls at 30s. per lb., for delivery in one-case 5s. Australian would be at about 28s. 6d.

THYME.—Medium quality, on spot, is valued at about 16s. per lb., but higher phenol-retaining oils would be dearer.

WORMSEED.—Nominal on spot at 25s. per lb.

Synthetics and Isolates. Many of these are restricted supply, and supplies are not necessarily available because prices are quoted. Difficulty may be experienced in obtaining supplies for perfumery purposes, as some of these products may be required for other and more essential uses. **AMYL ACETATE.**—Pure, about 130s. per cwt.; technical, 109s. per cwt.; all quantities, up to 2s. per lb. **AMYL CINNAMIC ALDEHYDE.**—About 22s. 6d. per lb. **AMYL SALICYLATE.**—About 4s. 9d. per lb. **BENZYL ACETATE.**—3s. 6d. to 4s. per lb. **BROMOCINNAMOL.**—100 per cent., 20s. per lb. **CINNAMIC ALDEHYDE.**—Quoted at about 7s. 6d. to 8s. per lb. **CITRAL.**—Chemically pure, 65s. per lb. **CITRONELLAL.**—About 40s. per lb. **CITRONELLOL.**—About 45s. per lb. **COUMARIN.**—About 6d. per lb. **ETHYL PHTHALATE.**—No quotations. **EUCALYPTOL.**—About 13s. per lb. **GERANIOL.**—About 26s. per lb. **GERANOL.**—Extra, about 60s. per lb. **GERANYL ACETATE.**—About 60s. per lb. **IONONE.**—100 per cent., about 70s. per lb.; alpha, about 80s. per lb. **ISOGERANIOL.**—About 28s. per lb. **LINALOL** (ex bois rose).—About 50s. **LINALYL ACETATE** (ex bois de rose).—About 55s. per lb. **METHYL GERANILATE.**—Prices would be a matter for negotiation. **MIRBANE.**—10d. to 1s. 3d. per lb., according to quantity. **MUSK KETONE**, **MUSK ALCOHOL**, and **MUSK AMBRETE.**—Prices would be a matter for negotiation. **NEROLIN.**—Prices would be a matter for negotiation. **TERPINEOL.**—For antiseptics only, about 4s. per lb.

TRADE MARKS

The figures in parentheses refer to the classes in which these marks are grouped and details are given in *The Chemist and Druggist Diary*, 1942, p. 273.

(From "*The Trade Marks Journal*,"
April 1, 1942)

"HISTLE"; for soaps, etc. (3). By Leach & Son (Ilford), Ltd., Woolley Hall, Maidenhead, Berkshire. 617,752 (Associated).
"EDS"; for medicated sweetmeats (5). By E. Gray, 54 North Street, Dudley, Worcestershire. 616,865.

"BES"; for all goods (5) excluding diabetic, infants' and invalids' foods. By F. W. Hampshire & Co., Ltd., Sunnysdale Works, Salford Lane, Derby. 617,695 (Associated).

"TETMOS"; for veterinary preparations (5). By Imperial Chemical Industries, Ltd., Wexham Road, Slough, Bucks. 615,112.

"FEBROPHIL"; for a medicinal preparation for treatment of influenza, malaria, neuralgia, rheumatism and sciatica (5). By Bengué & Co., Ltd., Mount Pleasant, Alpertown, Wembley, Middlesex. 617,399.

"CALSORBENT"; for pharmaceutical preparations and substances (5). By Savory & Moore, Ltd., 61 Welbeck Street, London, W.1. 617,757.

"MORHULIN"; for medicated ointments, dusting powders for infants, powders for scalds, burns, dermatitis and exanthema, and suppositories; all containing cod liver oil (5). By Priory Laboratories, Ltd., 21 Eastbury Road, Northwood, Middlesex. 617,794.

"STEROFORM"; for dental impression compositions (5). By F. D. Gratrix, 74 Richmond Road, Twickenham, Middlesex. 617,846.

REGISTERED USERS OF REGISTERED TRADE MARKS

Specification No. 317,182 for pharmaceutical preparations for human use containing *Bacillus Acidophilus Lacticus* and *Bacillus Bulgaricus*, by Wilcox, Jozeau & Co., Ltd., 74-77 White Lion Street, London, N.1.

(From "*The Trade Marks Journal*,"
April 8, 1942)

"BROPARCO ASHFIELD" on oval device incorporating tree ("Ashfield" disclaimed); for chemical products (1), for laundry preparations, essential oils, cosmetics, hair lotions and dentifrices (3), and for all goods (5). By Brook, Parker & Co., Ltd., Ashfield, Horton Road, Bradford. 617,789-90-91 (Associated).

"CALVONA"; for soaps (3). By F. C. Calvert & Co., Ltd., Tower Chemical Works, Gibbon Street, Bradford. 617,881.

"FINEST HOUR"; for perfumery, cosmetics, dentifrices and hair lotions (3). By W. W. Brown, 27 Ratcliffe Terrace, Edinburgh. 617,940.

"JENFLAN" on square frame; for surgical adhesive bandages, plasters and dressings, and for first-aid boxes (5). By D. H. & J. Jenkins, Ltd., 113 West Regent Street, Glasgow, C.2. 617,372.

"DEARBORN" on rectangular device of deer and tree ("Dearborn" disclaimed); for pharmaceutical preparations for human use, medicated ointment, and deodorants not for toilet purposes (5). By Dearborn (1923), Ltd., Hellidon House, Hellidon, near Daventry. 617,492 (Associated).

APPLICATION AMENDMENT

According to "*The Trade Marks Journal*," April 8, 1942, specification No. 616,362, by Cross of Enfield, Ltd., has been altered so as to read "Tonic preparations for human use."

CONVERSION OF SPECIFICATIONS (Section 36 (3) and Rules 6 to 8)

To Schedule IV (with amalgamation): Nos. 56,012 and 56,680 by The Erasmus Co., Ltd.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Questions to Eire Pharmacists

SIR,—It is not right to say that a letter regarding proposed alterations in the educational programme has been sent to members of the Pharmaceutical Society of Ireland. The letter, which you were good enough to publish recently (*C. & D.*, April 4, p. 377), was intended as an invitation to members to send to the Committee their views and suggestions which might bring our whole educational and training system more in line with modern requirements.

Yours faithfully,
PATRICK C. CAHILL.

President,

Pharmaceutical Society of Ireland.
Dublin.

Pharmacists and Unqualified Men in the Army

SIR,—At a meeting of the Manchester Pharmaceutical Association Council, Junior Branch Executive and Pharmaceutical Society Branch Executive, recently, a desire was expressed to help in some practical way pharmacists and unqualified men from pharmacies now in the Forces and placed in billets in the Manchester area. A suggestion was made, and approved, that hospitality should be offered by members of the craft to these men when they had a free afternoon or evening. If any such men in the Forces in the area will get in touch with me by letter or telephone I will arrange hospitality for them, and give them the address of a colleague in the district where they are stationed. The idea is to keep these men in contact with pharmacy, to help them if they are strangers in the area, and enable them to spend a few pleasant hours in congenial company.

Yours faithfully,
Hale, Cheshire. T. MILLER.

Appreciations

My copies of *THE CHEMIST AND DRUGGIST* arrive like "clockwork." Congratulations.—J. B. I., Johannesburg.

I have been reading the *C. & D.* regularly for nearly twenty-five years, and never have I failed to repay the cost of my subscription many times over from the information obtained each year.—E. A. B., London, S.W.

MISCELLANEOUS INQUIRIES

Ascorbic Acid in Gingivitis.—*W. M.*—Clinical investigations have shown that gingivitis has been effectively treated with massive doses of ascorbic acid without other dental treatment such as scaling or mouth washes. In a series of cases treated 300 mgm. of ascorbic acid was given daily until a urine test showed that the patient was saturated with the vitamin. On an average a total of 2,000 mgm. was needed. The previously sore and inflamed gums became normal after approximately four days' treatment.

Skin Stains from Explosives.—*K. B.*—The staining of the skin of workers in munition factories is, in the majority of cases, due to tetryl, and the standard soap used for removing this, approved by the Ministry of Supply, is made up as follows:—

Hard yellow soap	..	20 lb.
Sodium sulphite	..	1 lb.
Water	..	10 galls.

On using the soap a red compound is formed which easily washes off. It is found more satisfactory to use cold water, but as the operatives do not like this a thermostatically controlled tepid water supply should be delivered to the ablution rooms.

Histone-Zinc-Insulin.—*A. J. S.*—Objections to the slow and very prolonged action of protamine-zinc-insulin have led to the introduction of histone-zinc-insulin, which contains the following:—

Insulin	40 units
Histone	1.3 mgm.
Zinc	0.08 mgm.

The solution is buffered to pH 7.0 and also contains phenol 0.25 per cent. and 1.6 per cent. glycerin to make it isotonic. Histone-zinc-insulin is more rapid in its action than protamine-zinc-insulin, and an injection is stated to offset a rise in blood sugar at the beginning of the day. Its action is believed to be complete in about twenty-two hours, and some authorities claim that more patients can be effectively kept glycosuria-free following a single injection of histone-zinc-insulin given in the morning than by any other form of insulin.

CLOSED ON SATURDAYS.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of *THE CHEMIST AND DRUGGIST*, 28 Essex Street, London, W.C., is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the *C. & D.* c/o The Pitman Press, Bath, Somerset.

Announcement

by BAYER PRODUCTS LTD.



Bayer Products Limited have pleasure in announcing that in spite of the war-time upward trend in costs, no general increase in the prices of BAYER MEDICAL PREPARATIONS is contemplated at present and their January 1941 Price List is therefore, in general, still current.

EXCEPTIONS are the two undernoted preparations where, due to greatly increased costs of certain of the ingredients, the following prices are now operative :

'THEOMINAL' Brand of		'BUTOLAN' Brand of	
PHENOBARBITONE & THEOBROMINE TABLETS	20's 4/-	DIPHENAN TABLETS 7½ gr.	20's 4/-
" " "	50's 9/-	" " "	50's 9/-
" " "	250's 37/6	" " "	" " "

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LIMITATION OF PACKINGS

With a view to the elimination of superfluous packings it has been decided not to replace certain packings as stocks run out. Please note that the following BAYER tableted products will, in future, only be issued in the under-noted packings:—

TRADE MARKS *	DISPENSING PACKING	CLINICAL PACKING
* 'ABASIN' Brand of CETOMAL (4 gr. tabs.)	20's and 100's	—
* 'ADALIN' Brand of CARBROMAL (5 gr. tabs.)	25's and 100's	250's
BAYER ASPIRIN (5 gr.)	25's and 100's	250's
" " (7½ gr.)	20's and 100's	—
* 'BETAXAN' Brand of VITAMIN B ₁ (1 mg. and 3 mg.)	20's and 100's	500's
* 'BUTOLAN' Brand of DIPHENAN (7½ gr. tabs.)	20's and 50's	—
* 'CANTAN' Brand of VITAMIN C (50 mg.)	20's and 100's	250's
" (5 mg.)	50's	250's
* 'ELITYRAN' Brand of THYROID EXTRACT (10 G.P.U.)	30's and 100's	250's
* 'EUMYDRIN' Brand of METHYL ATROPINE NITRATE (1 mg. tab.)	10's and 100's	—
* 'GARDAN' Brand of GAMMADAN (5 gr. tabs.)	25's and 100's	250's
* 'HELMITOL' Brand of FORMAMOL (5 gr. tabs.)	25's and 100's	250's
* 'ISTIN' Brand of DANTHRON (2½ gr. tabs.)	30's and 100's	500's
* 'LUMINAL' Brand of PHENOBARBITONE	10's (3, 5 gr.)	250's and 1,000's
	50's (¼, 2, 2½, 5 gr.)	(¼, ½, 1, 1½ gr.)
	100's (¼, ½, 1, 1½ gr.)	—
* 'NOVALGIN' Brand of NYNALGIN (5 gr. tabs.)	25's and 100's	—
* 'NOVOCAIN' Brand of ETHOCAINE HYDROCH.	10's	—
* 'PANFLAVIN' Brand of THROAT TABLETS	30's and 100's	1,000's
* 'PROMINAL' Brand of PHEMITONE (½ gr.)	30's and 100's	—
" " (3 gr.)	10's and 100's	—
* 'PYRAMIDON' Brand of AMIDOPYRINE (1½ gr.)	20's and 100's	250's
" " (5 gr.)	25's and 100's	250's
* 'THEOCIN' SODIUM ACETATE Brand of THEOPHYLLINE SOD. ACETATE (1½ gr. tabs.)	20's	—
* 'THEOMINAL' Brand of PHENOBARBITONE and THEOBROMINE (tabs.)	20's and 50's	250's
* 'VERONAL' Brand of BARBITONE (5 gr.)	25's	—
" " (7½ gr.)	10's	—
* 'YATREN' Brand of CHINIOFON PILLS	25's and 100's	—

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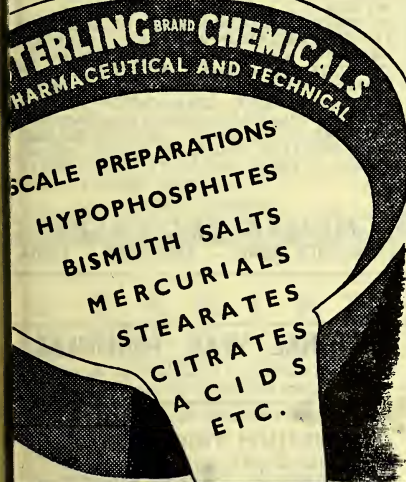
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ENQUIRIES INVITED

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SULIS

THE BRITISH MINERAL WATER

Prices, discounts and full particulars from:
ATER, STOFFELL & FORTT, LTD., The Springs, BATH

SACCHARIN (HALF STRENGTH) TABLETS

Manufactured in accordance with the Saccharin (Control and Maximum Prices) Order, 1941.

Unlimited quantities for sale. immediate deliveries.

R. H. GOLDFINE, Botolph House, 10 Eastcheap, E.C.3

ORDERS and INDENTS invited from
DOMINION, COLONIAL and ALLIED IMPORTERS

W. H. JONES & CO. (LONDON) Ltd.

BUYERS and SHIPPERS

War-time Address:

20 BOSWORTH RD., NEW BARNET, HERTS, ENGLAND

For first class=

TABLET

MANUFACTURING SERVICE
and Chemists' Sundries

D. MAWDSLEY & CO. Manufacturing Chemists
Grange St., Rusholme, Manchester 14

CALDER YEAST TABLETS

50 TABLETS 8d. 100 TABLETS 1s. 2d.

(Including Purchase Tax). Obtainable in Cartons of
1 & 2 doz. bottles containing 50 Tablets, & Cartons
containing 1 doz. bottles of 100 tablets

CALDER YEAST CO., LTD., Inverkip St., GLASGOW

“OXOID”

The word “OXOID” is the trade mark of
OXO Ltd., and is used in connection with
their therapeutical preparations both in
tablet and fluid extract form.

ORGANO-THERAPEUTICAL PRODUCTS

OXO LABORATORY PREPARATIONS

FOR CULTURE MEDIA

“OXOID” Brand BACTERIOLOGICAL PEPTONE

Specially manufactured under scientific control for use in the culture of all species of bacteria.

The bacterial coefficient of each batch is tested and approved before issue.

Supplied as a granular powder; readily soluble.

Packed in sizes to meet all requirements.

1 oz. Bottles, 3/6.

Prices for bulk sizes. on request.

LAB-LEMCO

The standardised Extract for the biological laboratory.

Prepared under strict bacteriological and chemical control.

Each batch issued can be guaranteed to yield identical analytical figures.

In 2 oz. Jars. 1/6.

Literature supplied on application.

OXO LIMITED, Thames House, London. E.C.4

OXO LABORATORY PREPARATIONS

THE "NOSHOK" (Rubber Set) LUNAR CAUSTIC PENCIL

PRACTICALLY UNBREAKABLE



British Pat. No. 497604

or direct from

M. J. FECHER, LTD., SLOUGH TRADING ESTATE, SLOUGH, BUCKS

'Phone: SLOUGH 21864

ESTABLISHED 1891

A STURDY ARTICLE

British Made Throughout

RETAIL PRICE 4/9 doz.

Purchase Tax extra

OF ALL LEADING
WHOLESALE

CAPSULE MAKERS TO THE TRADE . .

Many years of specialised experience are at your disposal. Superlative products at keenly competitive prices. Ask us to quote for your new requirements. Own or standard formulæ compounded.

CROWN CAPSULE CO.

CAMPBELL ST., HELENSBURGH
SCOTLAND. 'Phone: Helensburgh 30

MILLAMALT

The TONIC MALT FOOD

Sole Manufacturers.
JEFFREYS MILLER & Co. Ltd. Leyland Mills, WIGAN. London Dept. 19 Brookside Road, N.

With Guaranteed Complement of Vitamins A, B, C & D



"HELLA"

TRANSPARENT LATEX PREVENTIVES

30/- PER GROSS
PACKED IN WALLETS OF THREE

WASHABLE SHEATHS
21/- PER DOZ., PACKED SINGLY

'JUMETOL' LUBRICATING JELLY
10/- PER DOZ. TUBES

LATEX FINGER STALLS
IN THREE SIZES 21/- PER GROSS

FEEDING BOTTLE TEATS
TRANSPARENT (Allenbury or Cherry Pattern)
21/- PER GROSS

FEEDING BOTTLE VALVES
TRANSPARENT 16/- PER GROSS

Terms net Carriage Paid. Cash with order preferred

JULIAN GROSSE

Tenant House, 50 Gt. Portland St., LONDON, W.1

'Phone: Museum 0060

MANOIDS

THE POTENT BRAIN & NERVE TONIC FOR MEN

1/3 size, 7/6 doz.

2/3 .. 13/6 ..
(plus P. Tax)

FROM ALL SUNDRIES
HOUSES, OR

THE

Acton Pill & Tablet Co. Ltd.
ASH VALE SURREY

ESTABLISHED 1793

ATKINSON & BARKER'S INFANTS' PRESERVATIVE

The Best and Safest Infants' Medicine of
140 years' standing

Does not contain any Scheduled Poison

ROBERT BARKER & SON, LTD.
13 WESLEY ST., C. on M., MANCHESTER

An Open Letter to the Distributive Trades

THE MAN FROM KORAY* does his job—a good job—for you, Mr. Retailer; for you, Mr. Wholesaler; and for us.

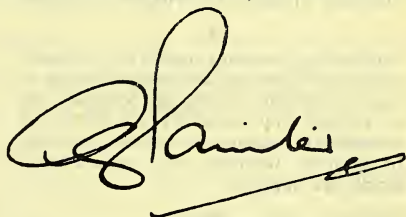
For you, Mr. Retailer, because he helps you to profit, right away, from a great line, backed by a great national advertising campaign. A stock of Koray is on your shelves, advertising matter affixed, and you are cashing in almost before he has left your premises.

For you, Mr. Wholesaler, with your shortage of travellers and difficulty in maintaining deliveries, **THE MAN FROM KORAY** lays the foundation of profitable business because every subsequent order received from retail accounts is passed to the wholesaler to fill.

** THE MAN FROM KORAY has a specified function. He is essentially a "pioneer" man. When he has completed his job in one area he moves on and the resident representative of Koray then takes over, his job being to continue to afford the fullest assistance to wholesaler and retailer.*

For us, the manufacturers of Koray, he represents an invaluable link with our friends in the Trade, and we are confident that we, and all sections of the Trade with us, will benefit from the interest he has created.

To retailers requiring further stocks of Koray we say, please apply to your usual Wholesale House. To wholesalers we say, we are confident that you can meet the demand for Koray which has already been created and which is still, as yet, not fully satisfied. To all we say, if you want any help please write to us, today, personally. The writer promises you an immediate reply. The address is easy to remember.



General Sales Manager.
KORAY LIMITED, BLACKPOOL.

FOR YOUR INFORMATION

PRICE OF KORAY TO YOU

KORAY UNITS ..	9/- per unit
(3 cards of 16 cartons, or 1 box of 4 doz.)	
KORAY 10's ..	4/6 per dozen
KORAY 28's ..	11/3 per dozen
KORAY 64's ..	22/6 per dozen

Subject to Purchase Tax at 16 $\frac{2}{3}$ per cent.

PRICE TO PUBLIC

3 $\frac{1}{2}$ d. per carton of 5 tablets
7d. per carton of 10 tablets
1/5 per carton of 28 tablets
2/10 per carton of 64 tablets

Including Purchase Tax

KORAY LIMITED BLACKPOOL and at LONDON, N.5

CURICONES

THE FAMOUS RHEUMATIC REMEDY

SELLING PRICES

(INCLUDING PURCHASE TAX)

As some chemists are confused about the new selling prices of Curicones they are as follows:—

5/- 14/- 24/-

Curicones show you 50% PROFIT on Purchase Prices, 33% PROFIT on Sales.

★

Although at present supplies of Curicones are normal and we are endeavouring to maintain them as long as possible, yet as various raw materials are becoming increasingly scarce we advise chemists to re-order without delay before their stocks are depleted.

★

In your district most adults suffer in some degree from rheumatic ailments.

★

Curicones are a P.A.T.A. line. Our National Advertising continues with undiminished vigour.

★

Examine your stocks of Curicones; there's big trade for you. It's worth while.

OBTAINABLE ONLY THROUGH
WHOLESALEERS APPROVED BY
P.A.T.A.

STEPHEN MATTHEWS & CO. LTD.**19-21 FARRINGDON STREET, E.C.4**

THE FIRM ATTACHMENT



of the public
for more
than
half a
century
to

**BOX'S
PILLS**

Keep your Public reminded that you sell Box's Pills. Give them a good show. Display stands free.

has made them a star to which the retail chemist is glad to hitch his wagon. They have always sold well, and in these difficult days when normal digestion is disturbed and digestion upset they sell better than ever.

P.A.T.A. RETAIL PRICES: 1/3, 3/-, 4/10½
12/- and 21/9 (including Purchase Tax)

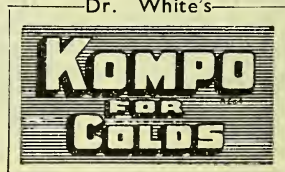
Postage extra.

W. H. BOX, 161 KING STREET, PLYMOUTH

AN ANNOUNCEMENT

Chemists who have enquiries for tooth sticks should get in touch with Keenes Laboratories Limited, 46 Elswick Road, Newcastle-on-Tyne, 4, who are manufacturing Keenes Dental Stimulators, and these are available in fairly large quantities.

—Dr. White's—



Manufactured only by

J. F. WHITE & CO., LTD.
Livington Laboratory, Benson St., Leeds, 7

What unusual opportunities the pharmacist has for studying human nature! A continuous stream of customers reveal themselves to his keen perception by their purchases, their half-confidences, their hopes and fears . . .

Customers vary . . .



here's **THE MAN WITH A PAIN**—generally in his stomach. He wants relief from it and that is something you can quickly give him. But does he realise that a cup of Benger's last thing at night for a fortnight would go a long way to removing the cause of his trouble—an over-strained digestion? Possibly not, but more and more people (and normal, healthy folk as well) are being influenced by the sound sense of Benger advertisements which appear in practically every important magazine and newspaper in the country.

**.. but you can invariably
sell them** —————



**90% of your customers need Benger's
and are being educated to ask for it.**

VICHY WATER



BY APPOINTMENT
TO H. M. THE KING

The attention of the Medical profession is drawn to the fact that a water approximating closely to the natural water of the Vichy spring is produced in England. The analysis of Burrow's Malvern Vichy is as follows:

Expressed in parts per 100,000

BURROW'S MALVERN-VICHY

Calcium bicarbonate (CaHCO_3)	8.83
Magnesium bicarbonate (MgHCO_3)	8.71
Sodium bicarbonate (NaHCO_3)	437.80
Sodium sulphate (Na_2SO_4)	29.67
Sodium chloride (NaCl)	51.63
Potassium chloride (KCl)	14.32
Iron and Alumina, Silica, etc.	1.05
	<u>532.01</u>

W. & J. BURROW • LIMITED • MALVERN

WHOLESALE DISTRIBUTORS: SCHWEPPE'S LTD., WOODLANDS, WEST HILL, PUTNEY, S.W. 15
FROM WHOM SAMPLES ARE OBTAINABLE UPON APPLICATION

It's no gamble to stock

TOWN TALK

Because 15,000,000 women read

TOWN TALK SILVER

in 100,000,000 homes

ORDER DIRECT OR FROM

MANCHESTER:
D. Mawdsley & Co.
James Woolley Sons & Co.,
Ltd.
LEEDS:
Goodalls (Leeds), Ltd.
LEICESTER:
E. H. Butler & Son.

NEWCASTLE-ON-TYNE:
Wilkinson & Simpson, Ltd.
LONDON:
Brooks & Warburton, Ltd.
May, Roberts & Co., Ltd.
Butler & Crispe.
LIVERPOOL:
Ayrton, Saunders & Co., Ltd.

THE TOWN TALK POLISH CO., MANCHESTER, 10

Continuous and Steadily Advertised Good FOR DESTROYING RATS AND MICE

DANYSZ VIRUS

Retail Price (Protected)	Net Wholesale Price
Virus for Rats and Mice, single tube, 2/-	15/- per doz.
3 tubes, 5/-	
Virus for Mice only, single tube, 1/6	9/-
3 tubes, 3/-	
Date-expired tubes returned to us postage paid will be exchanged free of charge.	

Danzysz Virus in Liquid Form

Retail Price	Wholesale Price
Bottles 6/- each	4/6 each
" 4/6 "	" 3/9 "

HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25% Monthly Account, or
33 1/3% Cash with Order.

	Retail	Monthly A/c	Cash with Order
1/2 gall. tins	10/-	7/6	6/8
1 " "	18/-	13/6	12/-
5 " "	80/-	60/-	53/4

DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches, Crickets, etc.

Retail Prices (Protected)	Wholesale Price
In cartons 9d. each	6/9 per doz.
" 1/6 "	13/6
" 3/- "	27/-

Danzo Beetle Powder will not deteriorate by keeping

CARRIAGE PAID ON ALL ORDERS

To be obtained from

HALLER LABORATORIES, LTD.

325 Borough High Street, LONDON, S.E.1

Telegrams: "Virudana, Sedist, London." Telephone: HOP. 2

There will always be an insistent demand for **SHERLEY'S** **DOG PREPARATIONS**

Despite the abnormal conditions prevailing, there will always be an insistent demand for Sherley's Dog Preparations as they are recognised by Owners everywhere as the True Standard of Excellence. It would therefore be wise to stock your shelves to capacity so as not to run the risk of disappointing regular customers. We, on our part, will continue to support retailers to the utmost, and maintain the fullest supplies possible.

STOCK YOUR SHELVES with Sherley's Tonic and Condition Powders Sherley's Worm Medicines Sherley's Aperient Powders Sherley's Skincure Sherley's Canker Lotion and Powder Sherley's Fit Tablets Sherley's Veterinary Ointment Sherley's Formalin Soap Lactol Biscuits Sherley's Dog and Cat Books

FREE DISPLAY MATERIAL. Bold, attractive Display Cards for counter and window are supplied to all Sherley stockists, free and post free.

A. F. SHERLEY & CO. LTD., Boston Manor Road, Brentford, Middlesex



DISCOUNT TERMS

A discount of 10% on minimum £2 parcels will be in future deducted from invoice, rendering the invoice nett 30 days. Orders value £1 and over carriage paid.

Owing to the difficulty in arranging travellers' regular calls, journey accounts are discontinued. Accounts are payable 30 days nett.

HARVEY'S
Horse Remedies
PATA Protected Prices
Supplies through all Wholesale Houses
HARVEY & CO. (DUBLIN), LTD.,
DUBLIN



GLASS BLOWING

OF EVERY DESCRIPTION

MEDICAL, SURGICAL AND LABORATORY
BENCH BLOWN GLASSWARE

C. AIMER & CO. 56-8 ROCHESTER PLACE
DUBLIN
GUL. 3618 CAMDEN RD., N.1

LIVERPOOL SCHOOL OF PHARMACY

PRINCIPAL

H. HUMPHREYS JONES, J.P., F.I.C., F.C.S., Ph.C.

Preparation for the Intermediate and Qualifying
Examinations of the Pharmaceutical Society
and for the Dispenser's Examination of the Society
of Apothecaries

Bookings are now proceeding for the next Session
(9 months' course in each case) commencing the
first week in October

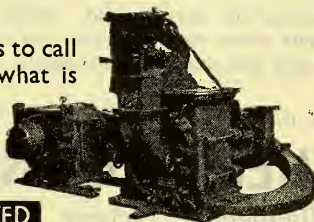
Full particulars from The Principal:—

2 BLACKBURN PLACE, LIVERPOOL 8

GRINDERS

The best way to ensure satisfaction in grinding is to call on Porteus. Not only do they know exactly what is required, but they can and do invariably advise in the very best type for the job in hand. Lengthy experience in design and construction at your service—why not write now?

GEORGE PORTEUS & SONS (LEEDS) LIMITED
LEEDS BRIDGE WORKS Provender Milling Specialists LEEDS 10



CHEMICAL & NATURAL PRODUCTS L

FOR THE INFORMATION OF OUR CUSTOMER

We regret that as most of our representatives and male clerical and factory staff are now serving in the Forces, our customers cannot be called on, and it is not possible to write in every case to customers regarding delays in executing orders. However, we want to keep you informed of our various lines, and will advise you of the position from time to time in this journal.

VAL GUITARE LIPSTICKS

Refill Lipsticks will be available in the next quota period. These refills will be of one size, namely, 11 mm., and will fit the holders of most popular brands, the price being 1/7½ plus Purchase Tax (suggested public price 2/4 including tax), and the usual trade discounts applying. Customers having a quota are advised to send in their orders in good time. The refills will be available in the most popular shades, but customers are advised to leave the selection to us as orders for particular shades may be delayed.

ARCANCIL MASCARA

No further supplies are available for this quota period, but we anticipate that sufficient will be available to give customers their quota in the next quota period.

AUTUMN CROCUS PERFUME

Supplies are very limited. When sending orders please mark them that you are willing to wait until supplies are available.

RAZVITE BRUSHLESS SHAVING CREAM

We are gradually catching up with deliveries but there will still be a delay. Owing to difficulty of outer containers, it will not be possible for us in every case to deliver outer cartons of 1-dozen tubes. For instance at the moment we are supplying the 6d. size in cartons containing 14 tubes, and generally speaking orders will be executed as so many cartons, each containing so many tubes instead of so many dozens. It may be that new packs must be introduced. When orders we suggest you mark your order to the effect that we can deliver in alternative packs if tubes and tins are not available.

SCRUBB'S

CLOUDY AMMONIA

The supply position of the large bottles is improving, and we expect to be able to execute all orders received within a few weeks of receipt of your order. There is no supply of the 7d. size at the moment; we suggest that until you are advised on this page you should not order further quantities of the 7d. size.

Sole Distributors:

CHEMICAL & NATURAL PRODUCTS L

Wimbledon Factory Estate, Morden Road, London, S.W.



The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

APRIL 25
1942

28, ESSEX STREET, LONDON, W.C. 2

Advertisements in this supplement must be prepaid and should reach us not later than WEDNESDAY of week of issue. Box Office numbers cost 1/-. Late advertisements will be held over to following week.

Chemists are permitted to make Proprietaries (including Cosmetics) for Retail Sale at the rate of £41 13s. 4d. per month. (Board of Trade Order, S.R. & O., 1941, 1686.) We can supply the raw materials, including Essential Oils, Colours, Packings and Instructions for the manufacture of the following:—

5 lb. FACE POWDER, 20/6, tax 13/8, all.
5 lb. BATH TALCUM, 12/6, tax 8/4, all.
1 lb. ROUGE POWDER, 20/6, tax 13/8, all.
Terms: C.W.O. or C.O.D. 1/- extra.

HARMAN DIETETIC LABORATORIES, LTD.
109 BROADWAY, CRICKLEWOOD, N.W.2

OPTICAL TUITION

FOR THE

S.M.C., B.O.A., and N.A.O. DIPLOMA Examinations

Particulars:—

C. A. SCURR, F.S.M.C., F.B.O.A., F.N.A.O.,
F.I.O., F.C.O., M.P.S.
50 HIGH STREET, BARNET, LONDON, N.

GRINDERS & PULVERISERS

TO THE TRADE . . . All Commodities

We offer Competitive Prices, Efficient Service
Prompt Deliveries . . . Enquiries invited

OMBAY MILLS, 2-7 Bombay Street, S.E.
Phone, BERMONDSEY 3411

SACCHARIN TABLETS

Required Full Strength, Half Strength
Packed and loose.

Maximum controlled prices

MORTIMER PRODUCTS LTD.
6 PERCY STREET, LONDON, W.1

OFFERED

Liquid Soap, 5 gallons, 40/-, drums included
(Tax paid); French Chalk, Gen. Superfine,
100 lb., 26/-; Snow-white Calcine Talc (Cos-
metic Quality), cwt. 30/-; Kaolin, B.P., Opt.,
½ cwt., 31/3, d/d; White Fullers Earth,
wt. 25/-; Gum Karaya, Pulv., best White,
wt. 5/- lb.; Gum Tragac., Pulv., White II,
wt., 11/- lb., d/d; Plaster of Paris (suit Dental),
0/- cwt.; Jap Menthol (recovered), 5-lb. tins,
5/- lb.; Spermaceti, B.P., 60 lb. boxes, 2/3 lb.;
Acetone; Amyl Acetate; Zinc Oxide, B.P.,
and Stearate; Phenacetin; Stearic Acid
powder, and Block. Any want quoted. Cwt.
prices on application. No broken bulk. C.W.O.
HENSHAW, M.P.S., Wyke Regis, Dorset

FRAGRANT TONIC HAIR CREAM

"Makes the Hair behave"

Prepare your own supplies of this high grade cream, easy to make up, costs less than 1d. per oz. All materials available, including smart gold seal labels. B.P. Castor Oil, Agar Agar, Gum Tragacanth, Emulsifying Wax, Beeswax, Ceresine Wax, Spermaceti, Bottles, Screw caps and corks. Send for List.

BRITISH COMMERCIAL CHEMICALS
AND SUPPLIES,

4 Cavendish Place, London, W.1

Tablet Manufacturers are in a position to accept Contracts or Sub-Contracts for tableting (including Saccharin), in large or small quantities. Own materials tabletted, also to your own formulae. Packing facilities available and prompt delivery assured. Competitive price. Send enquiries CDB/1005 London Office of this Paper.

TEATS (CHERRY), VALVES SOOTHERS IN "LATEX" 25/-, 21/-, 45/- gross

Post Paid. Cash with Order

EDWARD FERGUSON

"WHITE POSTS," BURROW HILL, WOKING, SURREY

Chemical Manufacturers can offer monthly deliveries of

500 GALLONS OF LYSOL DISINFECTANT

Moderate prices. Box 401/704 London Office of this Paper.

WE OFFER

VARIOUS FRENCH PERFUME COMPOUNDS

By Descallanges

IN ORIGINAL 5 KILO FLASKS

RAW MATERIALS FOR THE COSMETIC MANUFACTURER

SAMPLES AND QUOTATIONS

CHEMICALS & ESSENTIAL OILS LTD.
ASTOR HOUSE, 95 ALDWYCH, LONDON, W.C.2

Chancery 6116-7

SULPHONATED LAURYL ALCOHOL SUBSTITUTE (for Preparing Soapless Shampoos), 3/6 lb.
LIQUID STOCKING COLOURS (Beige, Tan and Gunmetal), 8/- lb.
CONTAINERS for same, 2/- doz.
HARMAN DIETETIC LABORATORIES, LTD.
 109 Broadway, Cricklewood, N.W.2

SITUATIONS OPEN

7/6 for 40 words or less, 2d. for every additional word.

None of the advertisements below relates to a woman between 20 and 30 years unless such woman has living with her a child of her own under the age of 14; or is registered under the Blind Persons Acts; or has a Ministry of Labour permit to allow her to obtain employment by individual effort.

RETAIL (HOME)

A GOOD Position is offered to young, energetic, Unqualified Assistant, male or female, who has experience of high-class Pharmacy. B. Salter & Son, 34 Castle Street, Shrewsbury.

ASSISTANT required with all-round experience for Retail Pharmacy; also a competent Dispenser. Satisfactory hours and wages offered. Apply stating the usual particulars of experience, age, etc., and salary required to Geo. B. Daniel, 272 High Road, Wood Green, N.22.

ASSISTANT, qualified or unqualified, male or female, wanted for country business, easy hours. Please state salary required and experience. Miss Watkins, Chemist, Shepton Mallet, Somerset.

CHELTHAM and Winchcombe.—Unqualified Assistants (male or female) required for high-class Dispensing businesses. Apply, by letter only, stating age, experience, salary expected and when free to J. L. Goulder, 418 High Street, Cheltenham.

EXPRIENCED Assistant wanted by old-established Pharmacy. Apply, giving full particulars as to age, experience, salary, etc., to Mottershead & Co. (Estd. 1790), Ltd., 7 Exchange Street, Manchester.

EXPRIENCED Managers or Manageresses required for Drug Stores in Liverpool district. Must be exempt from National Service. Reply stating full particulars to CDB/1004, London Office of this Paper.

LONDON Co-operative Society, Ltd., require Qualified Pharmacists, male or female, for progressive positions in the London area. Applications in the first instance to Pharmacy Manager, 16 Martin Street, Stratford, London, E.15.

MIDDLESEX COUNTY COUNCIL requires two ASSISTANT PHARMACISTS at Redhill County Hospital, Edgware, Middx., and one at Hillingdon County Hospital, Nr. Uxbridge, Middx. Must hold one of the qualifications of the Pharmaceutical Society. Salary £250 to £300 p.a. (plus cost of living bonus) according to experience. Whole-time duties under supervision of Medical Superintendent and Chief Pharmacist. Unestablished staff. Application stating age, nationality, qualifications and experience to Medical Superintendent "L1" of the Hospital preferred. No application forms. Relationship to any member or officer of the Council to be disclosed. Copies of not more than 3 recent testimonials. Canvassing directly or indirectly will disqualify. Closing date 9th May. (Women between 20 and 31 years inclusive, apply through Local Labour Exchange.)

N. CHESHIRE. Qualified Assistant (male or female) not liable for military service. Dispensing and Counter duties. Applications stating age, experience, and wages required. 402/725, London Office of this Paper.

PHARMACIST required immediately for Retail, mainly Dispensing. Apply stating usual particulars to Allen & Hanburys, Ltd., 7 Vere Street, W.1.

PHARMACY. Qualified Chemist required (male or female). Dispense and Counter. Stage age experience and salary required; with copy testimonials only. Abersychan and Pontypool Co-operative Society, Ltd., Hanbury Road, Pontypool Mon.

QUALIFIED and Unqualified Assistant (either sex) required. Dispensing and Counter Permanency. No Sunday or holiday duty. Please state age, experience, salary required, and when free to Manager, Pharmacy Department, Ipswich Industrial Co-operative Society, Ltd., 38 Carr Street Ipswich.

QUALIFIED and Unqualified male and female Assistants required for holiday relief. Apply in writing, stating age and experience, to the Sta Manager, Royal Arsenal Co-operative Society Limited, 113 Powis Street, Woolwich, S.E.1. Endorse envelope "Pharmacy."

QUALIFIED Gentleman (over 40) or Lady required as Manager for Branch Shop in North London. House available if required. Write particulars as to experience and salary required, J. T. Davy, Ltd., 128 Fore Street, Edmonton, N.1.

REQUIRED. Qualified Pharmacist, either sex and with full knowledge of all regulations, for Departmental Store, Southern county. Able to control stocks and supervise purchases for a general trade. Permanency if mutually satisfactory. 402/77 London Office of this Paper.

SALESMAN wanted for Surgical Stores West London, also one for busy South Coast Town. Must have Counter Sales experience and be exempt. Suitable applicant would be trained. Wages, commission and bonus. Write stating age, experience and wages expected. Box 104, Harwood's, 20 Strand, London, W.C.2.

SAVORY & MOORE, LTD., have a vacancy for a Qualified Manager at their branch in Beaconsfield. There are also vacancies for Assistants (male or female) in their West-End Establishments. Qualification is not essential, provided the assistant has had sufficient experience in Pharmacy generally. Full particulars in first letter: age, experience, salary expected, and when free to H. F. Stapley, 61 Welbeck Street, London, W.1.

TAYLORS BRITISH CHEMISTS have vacancies for Qualified Managers and Assistants Glasgow and other parts of Scotland. Please give full particulars in first letter, stating best time a day for interview to Austin, 1 St. Enoch Square Glasgow, C.1.

TAYLORS BRITISH CHEMISTS will shortly have vacancies for Qualified Managers & Assistants, male or female, in Leeds, Bolton, Darlington, Birmingham and Midlands, Durham; Liverpool, Birkenhead, Sheffield, Tipton, Huddersfield, H. Apply, Retail Staff Dept., Burley Hill, Leeds.

TIMOTHY WHITES & TAYLORS require qualified Staff, male and female, for Branch Managements throughout the South of England, including Barnstaple, Camborne, Portsmouth, etc. Good salaries and commission. Apply in writing to Retail Dept., 70 Vauxhall Bridge Road, London, S.W.

UNQUALIFIED Assistant (either sex) for Dispensing and Counter. High-class business hours. Fare paid from Ireland or anywhere British Isles. Send full particulars, testimonial salary, date free and snapshot first letter. Raymond Smith, 2 Cliff Road, Newquay, Cornwall.

UNQUALIFIED Assistant required, North-west reception area, exempt military service; dispensing and counter, must be quick and reliable good wages given. State full particulars in first letter 402/722, London Office of this Paper.

UNQUALIFIED Lady required for good business to do Counter and General Work. Usual particulars to J. D. Millar, 90 Wickham Road, Park Langley, Beckenham, Kent.

WANTED. Unqualified Lady or Gentleman (exempt) for mixed business. State age, experience and salary required. Henry Chapman Sons, 52 Newborough, Scarborough.

WANTED immediately Qualified Manager for good-class Family and Dispensing business (male or female). Apply, at once, to H. S. Holme, d., Market Place, Wallingford, Berks.

VARWICKSHIRE. Doctor requires Dispenser-Book-keeper shortly. Previous experience an advantage. Good salary. Sundays free and week-ends only. Send copies of references, salary required, to when disengaged and particulars of previous experience, to Dr. J. C. Neill, Redroofs, Nuneaton.

WHOLESALE

CHEMIST who is exempt from military service is required by firm of manufacturing chemists West Country. Experience of mass production of injection solutions in bottles and ampoules an advantage; wholesale manufacturing experience essential. Write stating age, full details of qualifications, positions held and precise nature of duties. 1/706, London Office of this Paper.

VACANCY occurs for duration of war, for Production Chemist and Assistant Works Manager exempt from military service, in large manufacturing Chemists in the South. Applicants could state age, previous experience, qualifications and salary required. 402/723, London Office of this Paper.

EXPERIENCED TABLETTER with thorough mechanical knowledge of tabletting machine wanted by important pharmaceutical manufacturer near London. Salary to the right man up to £10 per week. Write, giving full particulars of past experience, to Box 499, Smiths', 100 Fleet Street, London, E.C.4.

MANUFACTURING Chemists are open to engage a Chemist having knowledge and experience of manufacture of synthetic drugs in wide demand or of potential demand. Advertisers are open to provide necessary finance and remuneration. When full production established remuneration will be participation in profits. Write giving fullest particulars. 401/707, London Office of this Paper.

Manufacturing chemists require travellers of either sex calling on retail chemists in every town in Great Britain to carry their known Proprietary lines on generous commission basis only. Must be well introduced and have live connexions. Large stocks immediately available and every support forthcoming. Write in confidence stating present lines carried and territory covered. CDB/998, London Office of this Paper.

Manufacturing chemists require first-class travellers of either sex with live connexions amongst retail chemists throughout London, Suburbs and Home Counties to carry their Proprietary lines on liberal commission basis only. Every support can be given regarding deliveries. Write in confidence stating present lines carried and exact territory covered. DB/997, London Office of this Paper.

MANUFACTURERS of proprietary remedy would like to make contact with representatives in a position to undertake introduction on a fee plus commission basis to retail and wholesale chemists co-operative societies in provincial areas. Please full particulars of area covered, selling experience lines carried to CDB/1003, London Office of this Paper.

Medical Propagandists wanted in London, Suburbs, and throughout the country. Must be well introduced to Doctors, Hospitals and other Institutions, to introduce first-class non-competitive pharmaceutical products suited to the medical profession. Every assistance given and excellent commission paid to the right men. Only those ready contacting the medical profession need apply. Age, stating territory covered. All replies will be treated confidentially. CDB/999, London Office of this Paper.

PILL Maker required for Manufacturing House, N.W. London. Permanency. Should be over military age or exempt war service. State experience and wages required. CDB/994, London Office of this Paper.

REPRESENTATIVES (male or female) required for London and Home Counties on commission basis, to sell one line only for which an enormous demand already exists, as proved by most extensive sales. The line, which is not subject to the Limitation of Supplies Order or to purchase tax, sells freely to Chemists and Stores with toilet goods, drugs and sundries. Please state full details of experience, age, territory covered, etc. 402/732, London Office of this Paper.

SALESMAN with Pharmaceutical connexion in South Wales area required to sell advertised proprietary on salary, commission and expenses basis. Only those with first-class credentials need apply giving fullest particulars. 402/724, London Office of this Paper.

STOCK ROOM ASSISTANTS. Burroughs Wellcome & Co. require unqualified Male Assistants for work of national importance. Applicants should be exempt from military service. Previous experience an advantage but not essential. The vacant positions are permanent and pensionable. Write, giving full particulars of experience, age, salary required, etc., to Reference D.R., 183 Euston Road, N.W.1.

TABLET Maker wanted, fully experienced. Send full details. 401/685, London Office of this Paper.

WORKS MANAGER. Qualified Chemist, exempt from military service, required for a well-known London house manufacturing tablets, pills and packed goods. Excellent opportunity for man of ability and initiative. Must be good organiser and capable of controlling staff. Some previous manufacturing experience essential. The appointment offers considerable possibilities for advancement. Full details of experience, stating age and salary required. CDB/993, London Office of this Paper.

TABLET Maker wanted for small factory, Central London. Five-day week. Knowledge of sugar-coating an asset—or would be taught. Excellent opportunity for progressive post. Please state age, liability to military service, experience and salary required. Write Box 412, T. C. Bench, Ltd., 3 Tudor Street, E.C.4.

WANTED experienced Tabletteer, with sound mechanical knowledge of tabletting machinery, and accustomed to pharmaceutical tablet manufacture. Capable of taking complete charge. Factory situated East Yorkshire. Good salary to right man. Full particulars to CDB/1002, London Office of this Paper.

WANTED Storekeeper for receipt, dispatch, and distribution of fine chemicals with progressive firm in the North. Applicants must state experience, qualifications, and salary required. 402/730, London Office of this Paper.

AGENCIES

REPRESENTATIVE, old-established connexion among Chemists and Stores in South Eastern Counties, desires to represent additional well-known House, commission basis, excellent references. 402/731, London Office of this Paper.

PARTNERSHIP

7/6 for 36 words or less, 2d. for every additional word.

UNQUALIFIED, thoroughly experienced, exempt from military duties, desires active partnership established business, preferably in country district within easy reach of London. 402/721, London Office of this Paper.

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SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word.

None of the advertisements below relates to a woman between 20 and 30 years unless such woman has living with her a child of her own under the age of 14; or is registered under the Blind Persons Act; or has a Ministry of Labour permit to allow her to obtain employment by individual effort.

RETAIL (HOME)

PHARMACIST, 30, in N. Ireland desires post in Hospital or Manufacturing concern. Fifteen years' experience of retail pharmacy. 402/727, London Office of this Paper.

WHOLESALE

A DILIGENT unqualified Chemist, Manager for six years, with remarkably good record, wishes to leave Retail. Would welcome work as medical propagandist, representative, laboratory assistant, or administration with London or Home Counties firm. Age 30. Exempt. Work of national importance preferred. 401/711, London Office of this Paper.

ADVERTISER, 42, wishes to represent firm of repute, marketing ethical products, London or provinces. Thirteen years' experience medical propaganda work. 402/726, London Office of this Paper.

MANAGER/COMPOUNDER. Advertiser, ineligible, 48, released from military service, experienced Cosmetics (also medicated), Perfumery, and Proprietaries, including Compressed Tablets. 401/701, London Office of this Paper.

QUALIFIED, 48, released from military service, thoroughly experienced both Wholesale and Retail. Competent, not afraid of responsibility, good personality; seeks permanent appointment with first-class House. Excellent references obtainable, interview any time. Write: Medica, Clevelean West Drive, Streatham Park, London, S.W.16.

FOR SALE (Retailers' Surplus)

7/6 for 36 words or less, 2d. for every additional word.

FOR SALE. Twelve gross beautiful 2-oz. White-Flint Square-shouldered Sprinkler-neck Flats with Silver-gilding screw-caps, £36 the lot carr. forward. C.W.O. Sample 9d. Addey, Chemist, Rossington, Doncaster.

THREE gross one-drop bakelite perfume containers, various colours, 48s. per gross. Three gross smart black bakelite containers, white screw base; suitable medium-sized lipstick; 90s. per gross. Five gross fancy powder boxes, square, 2 oz. 56s. per gross. Cash with order. H. Poller, Chemist, 164 Wilmslow Road, Manchester, 20.

1 CWT. AIRTIGHT TINS IN CASES. Used only once for packing Milk Powder. Fully sealed tin with circular press-in lid, all free from rust. Strong cases slightly soiled externally. Apply CDB/913, London Office of this Paper.

MISCELLANEOUS SALES

12/6 for 60 words or less, 1/- each additional 10 words or less

ALKA LIMITED, Alka Works, Minerva Road, London, N.W.10. Specialists in tamperproof Metal Seals. Have spare machine capacity for priority jobs of large volume. Tel. Willesden 3870/3871.

FOR Sale, Chemists Mahogany Shop Fittings, consisting of Counters, Nests of Drawers, Mirror, Desk, etc. C. Udall & Co., Furniture Removers, Pitt Street, West Bromwich.

GUM Tragacanth Powder, B.P., pure white, 21s. per pound. Post paid. Cash with order. G. E. Betterton, 47 St. Leonard's Court, East Sheen, London, S.W.14.

LADIES' Toilet Mirror, in Solid Leather Case, Glass size, $3\frac{1}{2}$ in. \times $2\frac{1}{2}$ in. Price, 10s. dozen, plus 66 $\frac{2}{3}$ per cent. tax, postage paid. Sample sent on receipt 1s. 8d. Clarke & Co., 35 Thetford Road Ashford, Middlesex. Telephone 3012.

LATEX Preventatives, large quantity for disposal. Ivory, rolled, English manufacture, neat or excellent quality, packed plain white envelope 2 $\frac{1}{2}$ gross boxes. Prices and quotation quantities with samples on application to H. Smith, 13 Richmond Park Road, East Sheen, S.W.14.

WE can supply smart 3-piece Powder Boxes with cellophane window, at 36s. per gross; assorted colours. 4-oz. wide-mouthed Bottles, complete with corks, 50s. per gross. Red Sleeve Drums, suitable for Talc, 48s. per gross. Talc Boxes, special powder tight; assorted shades, 56s. per gross. Samples, 6 each. All offered subject unsold. Smith, 44 Pedro Street, Morecambe.

RUBBER Soothers, 6 doz., 30s.; Feeding-bottle Teats, 6 doz., 13s. 6d.; Chrome Leather Fing Stalls, 3 doz., 15s. Guaranteed quality goods C.W.O. Carriage paid. J. W. Staples, 69 St. John Street, Bridlington.

10 LB. Styraas, 5 lb. Bals. Copaiba, 4 lb. Crotonum, B.P., 7 lb. Oil Bitter Orange, 2. Ol. Bigorade, 14 lb. Cinnamon Alcohol, 8 oz. Epl. drine HCl, 2 oz. Opal pots (aluminium caps), 1 gr. gilt caps for 4 oz. Coffee bottles, 20 gross Cologne shampoos; 4 $\frac{1}{2}$ h.p. A.C. Motor and startable collapsible tubes, Perfume boxes. Savage, St. Le Lower Kingswood, Surrey.

WANTED

7/6 for 36 words or less, 2d. for every additional word.

EMPTY boxes wanted for packing munition Weekly London collection arranged. Boxera 59 Belvedere Road, S.E.1. WAT. 5541.

OILS or Fats and Glycerine, also Block Stearin wanted. Box 56, Pool's, Brettenham House, Lancaster Place, W.C.2.

SACCHARIN-POWDER, guaranteed 550, original tins, wanted in quantities up to 100. Offers to 402/729, London Office of this Paper.

SACCHARIN Tablets.—Established buying agency desire negotiations with manufacturers supplier to wholesale and retail trade direct. Saccharin Tablets in cartons. Own cartons and out available if preferred. Prompt cash settlement CDB/1006, London Office of this Paper.

WANTED by England's largest photographic dealers, All Miniature Cameras, extra lens and accessories, Rolleiflex, Leica, Contax, Ikonta etc.; also Microscopes and Cine Projectors. High prices guaranteed. Wallace Heaton, Ltd., 127 N. Bond Street, W.1.

WANTED, Manufacturing Chemists possess Fine white flake Naphthalene to manufacture 100,000 tablets weekly. Size 1 in. \times $\frac{5}{16}$ in. th. approx. Write 401/705, London Office of this Paper.

WANTED. Loofahs, Sponges, Permanganate Potash. Any quantity. United Sponge Co., Royal Mint Street, E.1. Royal 6978.

WANTED. Technical Oil in any quantity 20 gallons and Triethylenamine up to 2 gallons. Beardmore, Chemist, Liverpool, 8.

WANTED, 1-oz., 2-oz. and 4-oz. Bottles, Medical and Toilet, wide mouth, bakelite screw-caps. Also Paraffin Liquefied, B.P., and Halbut Oil Capsules in bulk (minimum 3). Samples and prices to Vicko Chemist, Cherry Lane, Liverpool, 4.

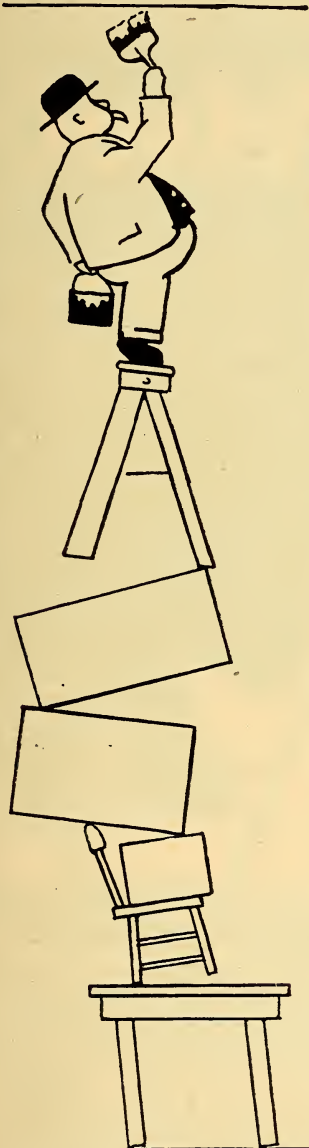
WHOLESALE in Cosmetics desires connexion with registered manufacturer of various lines relating to Class 16. Write 402/729, London Office of this Paper.

£10 WILL be paid to anyone who can put in writer into touch with an immediate supplier of one million full-strength Saccharin Tablets at controlled price. CDB/1007, London Office of this Paper.

BUSINESS WANTED

7/6 for 40 words or less, 2d. for every additional word

SMALL business with really good House. Small town West or South-West England. No London. Mixed business no objection. Please give in confidence, full particulars business and accommodation, and if possible, send photo shop. Sutherland c/o Lyons, 23A Ventnor Villas, Hove.



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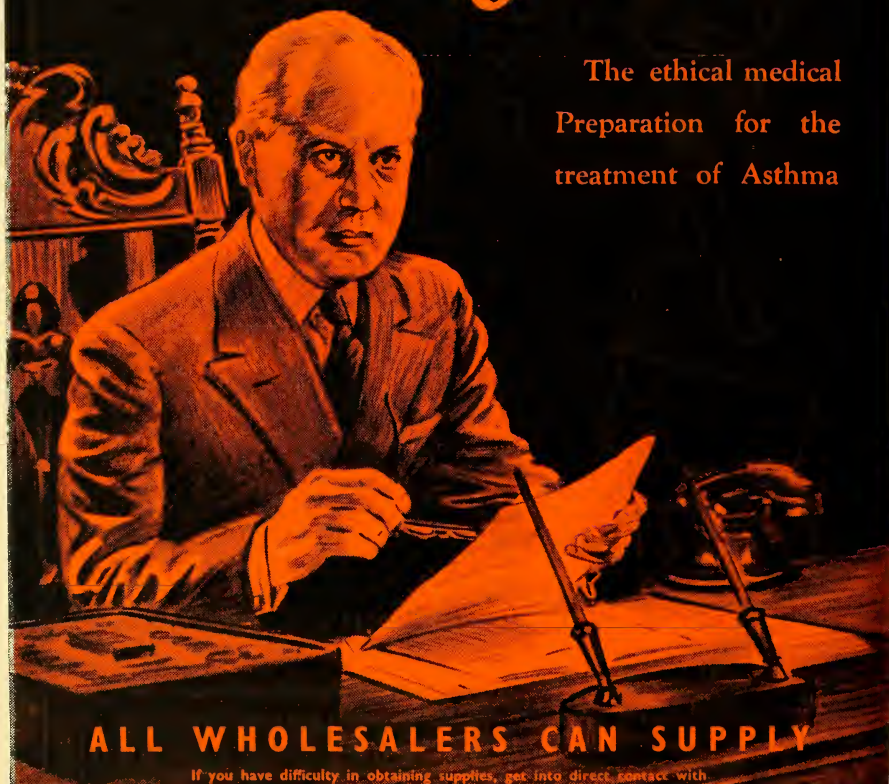
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